

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

APRIL 1, 1959

Serial Dept.

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

VOL. CIX, NO. 7

APRIL 1, 1959

Founded 1904
With which was merged 1939
THE NATIONAL NURSERYMAN
Established 1893



Published on the
first and fifteenth
of each month by the
AMERICAN NURSERYMAN
PUBLISHING COMPANY
343 South Dearborn Street,
Chicago 4, Illinois
Telephone: WAbash 2-9011



Subscription Price:
\$5.00 per year; outside
United States, \$6.00;
Single Copies, 25c.



Advertising Rates
On Application.
For Closing Dates
See Next Page.



Second-class postage
paid at Chicago, Ill.

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Forms for the May 1 issue will close Friday, April 10.

Forms for the May 15 issue will close Friday, April 24. Mail copy to arrive at Chicago by these dates—no later!



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Very soon our fertile Hemet Valley will be covered in a carpet of dazzling color. As bloom time nears, we like to pause and consider: What goes into this business of growing roses commercially?

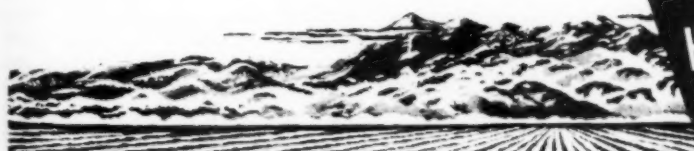
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AMERICAN NURSERYMAN

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Editorial

WINTER INJURY

Some time must elapse before accurate knowledge will be obtained as to the injury done to nursery stock in the fields during the past winter in the sections of the country where abnormal snowfall, covering the ground for a long period, and the unusual extent of below-zero weather, freezing the ground below normal levels, have been experienced. Ice and sleet, high winds and scattered tornadoes have taken toll in some localities.

The injury to yews and some other evergreens is already apparent. Evidences of burn are extensive in some areas. Some of it may be removed by a slight pruning, but in other cases it is so severe that plants will require at least another season to present a salable appearance. Where the freezing weather was unusually severe, plants in unfavorably wet areas may be found to have suffered to a greater extent.

If the damage is no more, it will reduce the amount of salable stock, particularly in yews, in some nurseries. This is the more unfortunate since the yew has become so largely produced as a favorite for residential plantings. The setback, like that in the midwest almost a decade ago, may result in a return to the larger propagation and production of the old reliable Pfitzer juniper. Staked specimens of this plant, in particular, are good substitutes for moderate-size upright yews and in time will prove their value in appearance and hardiness as well worth the extra production cost, though retail nurserymen and homeowners may be reluctant to pay it at the outset.

There will be numerous demands from homeowners on advice as to pruning or replacing damaged evergreens, and study of the individual plants is necessary for accurate determination. No doubt, rosebushes will suffer from the excessive cold in gardens where covering with soil

The Mirror of the Trade

in autumn was not done thoroughly. There should be good demand for container-grown plants for late replacements. It is to be hoped there will be a long spring planting season, to give opportunity for supplying stock for replacing garden plants that are found lacking in vitality to give satisfaction in the coming year.

STATE ACTIVITIES

Among the organizations which have recently undertaken to keep their readers informed of activities by a regular publication, the Wisconsin Nurserymen's Association issues a bulletin of three sheets mimeographed on two sides, termed the *Needler*. A recent issue, besides enclosing a reprint of the midwinter convention report in the *American Nurseryman* for the benefit of members who were not present, presents detailed accounts of the activities of association committees and other groups with regard to problems which have arisen with a county park commission and the state forestry department. It is obvious from the accounts that just the appearance of the association representatives before these two bodies was sufficient to bring their policies more into line with the nurserymen's thinking about them. Such an association publication is useful in keeping before the members the activities of the organization so that they will feel it worth while to support and even to participate in the good work.

SERVICES AND TAXES

Citizens of the state of Washington have set an example that might well be followed in other parts of the country by pledging their state officials that they will ask for no additional services if the legislature will impose no additional taxes. President Eisenhower has changed his formerly announced attitude that the American people are entitled to the services which they ask for and will pay for and he now seeks by economy in federal spending to achieve a balanced budget. He and other citizens of the nation see in the threat of inflation a problem which faces this country in its own national as well as international affairs.

Governments, local, state and national have found the prosperous era one in which it is so easy to impose taxes that everyone is in a spending mood. The attitude of legislators

has been reflected in corporation policies and in the personal habits of employees. Thinking persons see in the accumulated waste of such prodigality a danger not only to the country's economy, but also to the American way of life.

ROSE SOCIETY BIRTHDAY

By the calendar of some of its adherents, the American Rose Society celebrated its 60th birthday March 13. But its founding dates five years farther back, for in 1894 a group of commercial rose growers at the convention of the Society of American Florists decided to form the new society, paid dues for five years and then recessed. Like other new organizations in those days, progress was made slowly. In its early years the society was formed by and for the commercial rose growers, who were the greenhouse forcers of cut roses, as most rose plants for gardens were then imported from Europe.

As the years passed, the situation changed, and a new horticultural industry grew up in this country, that of producing millions of rosebushes for planting in home gardens. Amateur rosarians were welcomed into the society, but the commercial growers supported its functions until a quarter century ago. Through the missionary work of such men as J. Horace McFarland and Robert Pyle, supported by the commercial interests, the society was turned over to the amateurs. They were elected to office and have come to outnumber the commercial members so far that no longer is there the distinction in membership of earlier years. Now the membership totals over 17,000 members.

Part of this growth, of course, is due to the increasing popularity of the rose and the widening of garden interest in this country. But the travels and lectures of Robert Pyle, as of others, were a stimulant. The publications fostered by the late Dr. McFarland, the *Rose Quarterly*, the *American Rose* magazine and the *American Rose Annual*, the result of his personal effort for many years, also deserve much credit. An example before the American Rose Society was always that of the comparable group in Great Britain, now numbering over 25,000. The great progress of the American Rose Society in little more than a half century should be an inspiration for other organizations in horticulture.



Framing of an office reception room and industrial site with a planting for year-round effect, winner of a gold medal for the Illinois State Nurserymen's Association at the Chicago flower show.

Chicago World Flower Show

Illinois State Nurserymen's Association Wins Top Honors with Three Exhibits

Chicagoland's great host of flower lovers and gardening enthusiasts were given their first major flower show in 12 years March 14 to 22 at the International Amphitheater, Chicago. Winter-weary midwesterners found the event an excellent stimulus for their coming season's activities, discovering in the various feature gardens new ideas toward which to direct their energies and modern horticultural materials and techniques to assure them greater satisfactions than ever before. Continuing cold weather, even snow in much of the Metropolitan area, gave the spectacle extra appeal on the opening days.

At the opening ceremony March 14, R. Milton Carleton, president of the Chicago Horticultural Society, cut a rope of flowers to admit the public. A guest of honor for the event was Mayor Richard J. Daley.

Sponsors of Show

Jointly sponsoring the Chicago show were the Chicago Horticultural Society, the Illinois State Nurserymen's Association, the Allied Florists' Association of Illinois, the Central Western Zone of the Garden Club of America, the Men's Garden Clubs of America, the Chicago Council of Foreign Relations, Nationally Accredited Flower Show Judges of America, Inc., and the woman's board of the Chicago Horticultural Society. Many specialized plant societies and individual garden

clubs took part with educational displays and information booths.

Nurserymen Assist

Participation by members of the Illinois State Nurserymen's Association contributed in great measure to the successful staging of the show. Plantings by individuals and by the group as a whole earned several medal awards. Nurserymen's skill and materials were also prominent in planting features sponsored by nontrade organizations. Weather problems undoubtedly handicapped some efforts that had been planned; the effects of a hard winter were

noted on some stock, and there was uneven success in obtaining well-bloomed forced plants.

Scene of the national flower and garden show of the Society of American Florists in 1947, the International Amphitheater provides a mammoth exhibition site. The main arena, which has balcony seating surrounding it, has a floor space of 50,000 square feet. This area was given to feature plantings in a unified plan by the show designer, Harold O. Klopp, Palatine, Ill., and his associate, Don Pearson. On either side of the arena, huge halls held smaller feature gardens, the displays



Planting which won the Bulkley gold medal for the Illinois State Nurserymen's Association at the Chicago world flower show suggested a nursery salesyard and was designed to stimulate the public's appreciation of the labor and time involved in growing trees and shrubs of quality.



Setting for Garden Living in June Suggested at the Chicago Flower Show by the Charles Klehm & Son Nursery

made by garden clubs, the numerous entries in flower arrangement classes and trade and research exhibits.

A path that roughly formed a figure 8 circled two groups of gardens in the center of the main arena and gave visitors equally good views of the plantings about the sides. Providing a 50-foot backdrop for the entire arena scene was a southern hillside effect at the east end of the main section, featuring azaleas and camellias in full bloom, interspersed with flowering crab apples and plum, in the midst of which a waterfall cascaded. Spring-flowering bulbs and other plants formed the base planting. This display was arranged and

executed under the supervision of William Blaesing, chief horticulturist of the Chicago park district. The Chicago Horticultural Society's Charles L. Hutchinson gold medal award went to this colorful feature that had some excellently bloomed specimens.

Industrial Planting

Immediately facing the main entrance was a planting designated "The Approach to Business," suggesting the current trend toward landscaping commercial properties. This site, sponsored by the Illinois State Nurserymen's Association and planned by the American Associa-

tion of Landscape Architects, with Harold Klopp consultant, received a gold medal. A simply framed office reception room in the background at the left side was flanked by a terrace planting containing azaleas in raised beds and a flowering red-bud tree at one side and by yews and pines on the other. A shrub and evergreen border, with viburnum, quinces and lilacs in flower and strategically placed crab apple trees and star magnolias in bloom, extended across the back and around the righthand end of the area. Among the shrubs the ground was dotted with clumps of myrtle, cro-

[Continued on page 141]

Cleveland Flower Show

The Cleveland home and flower show, held February 28 to March 8 in the Cleveland Public Auditorium, Cleveland, O., was designed around an "International" theme in keeping with the opening this year of the St. Lawrence seaway, which will open the port of Cleveland to foreign ships.

Henry Pree, landscape architect, Cleveland, designed the displays with the home gardener in mind, making them readily adaptable to city and suburban homesites. Executed by 14 leading growers and nurserymen of northern Ohio, the competitive gardens were divided into three classes, large, medium and small.

Fred Schneider & Sons Co., Rocky River, won first prize in the large gardens class with their "Garden in British Columbia," and second prize went to Kurt O. Laubinger & Sons, Inc., Northfield, for its display of an "Old German Garden." Honorable

mention in the large gardens category was given to Stoney Acre Gardens, Cleveland, for a Swedish garden, and to Hirt's Greenhouses, Strongsville. The latter firm developed the theme "Ground Covers the World Around" with spreading junipers, cotoneasters, leucothoes, heather, Baltic ivy, euonymuses, hardy candytuft, myrtles, pachysandras and sedums. The planting was edged with santolinas and accented with coral-bells, azaleas and weeping willows.

The first prize in the medium garden section was won by C. R. Perkins & Sons, Westlake, with a "Modern Japanese Garden." Second prize was awarded to Hi-Way Nurseries, Westlake, for their exhibit, "Modern Begonias in California," which featured these flowers in a vivid garden. C. Merkel Sons Co., Mentor, won third prize in this category with a "Mexican Foliage Garden."

Receiving honorable mention in

the medium gardens classification were Lieuhaven Gardens and Sunbeam Farm, both of Westlake, and Gali Florists & Greenhouses, Cleveland. Lieuhaven Gardens used salmon geraniums edged with silvery-gray santolinas against a background of Japanese andromedas and mountain laurel to exemplify "Informal Simplicity." Sunbeam Farm presented "An English Primrose Path," and Gali Florists & Greenhouses executed "A Garden on the Riviera."

Small Garden Section

The "Colonial Williamsburg Garden" designed by Parma Schlegel Greenhouse, Parma, was awarded first prize in the small garden section, the second prize going to Jack Ellacott, Cleveland, for his "Old Dutch Garden."

Also displayed at the show were two noncompetitive gardens, "A Korean Garden" and a "Brazilian Orchid Garden," by Delbert Smith, Uniontown, and Neill Greenhouses, Inc., Gates Mills, respectively. Numerous flower arrangements exhibited by retail florists also carried out the "International" theme.

New Fashions, Long Island Show Theme

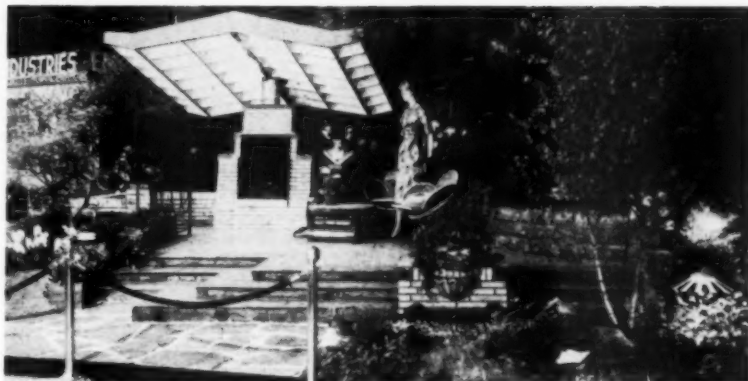
By Donald Griffiths, Jr.

The theme "New Fashions in Gardens" dominated in the Island Garden Arena, West Hempstead, L. I., N. Y., February 21 to March 1, as the Long Island Nurserymen's Association presented its 13th annual spring garden show. As interest in outdoor living is increasing, so is interest in this annual display of color increasing. Attendance was estimated at approximately 35,000.

All of the men involved in the organization, planning and execution of this successful show are specialists in the nursery industry on Long Island but they are fast becoming professionals in show presentation. Mark Eaton, Glen Head, one of the members of the Long Island Nurserymen's Association, did an excellent job as show manager. The floor plan of the show was designed by Eugene Mouquin, Glen Head, and all of the sod used was Merion bluegrass donated by Louis DeLea, East Northport.

In addition to Mark Eaton, the show committee consisted of Hewlett Lewis, Lewis & Valentine, Greenvale, L. I.; Charles Mouquin, Eugene H. Mouquin, Inc., and John Kean, Levittown, L. I. Lighting arrangements were made through the courtesy of Long Island Lighting Co. Hyson Associates, Glen Head, L. I., supplied the fertilizer for the plant forcing.

The following organizations forced the plants for all exhibitors: Agricultural and Technical Institute, planting fields campus at Oyster Bay, L. I.; Raynor's Nursery, Huntington, L. I.; Hicks' Nurseries, Inc., West-



This unusual Japanese garden designed by Alley Pond Nursery, Bayside, L. I., N. Y., was voted best in show in the popular ballot taken at the 13th annual Long Island garden show at Hempstead.

bury; Eugene H. Mouquin, Glen Head, L. I., and Triangle Nursery, Glen Head, L. I.

Manikins in Exhibits

The theme for this year's show was unusual, as it was carried through by manikins in each garden supplied by leading Long Island and New York city stores. The clothes displayed tied in with the atmosphere of the individual gardens and received much favorable comment, especially from the women in attendance.

There was no judging by professionals, nor was there any class arrangement, although the gardens were of various sizes. The plans were to present each exhibitor with a large framed photo of his garden in place of cups and platters. There

was, however, a public ballot to determine the most beautiful and popular garden. This honor went to Alley Pond Nursery, Bayside, L. I., with second place going to Landscape Associates, Brookville, L. I. There were 24 garden sponsors, in addition to the 33 commercial exhibitors, who were in friendly competition for the honor.

Another addition to this ever-growing show was the display of flower arrangements sponsored by the Long Island Horticultural Society. To top off the cooperative spirit, a 60-foot birch tree was located in the center of the arena, where it commanded much attention and comment. Another feature was the underground pop-up sprinkler system, illuminated by color lighting, installed under the stands by Webb Felix, Central Islip.

Alley Pond Nursery had a Japanese theme complete with a new idea of pergolas and a different patio surfacing for the Long Island area. The pergola was colorful and eye-catching, as it covered a brick barbecue pit and a patio paved with polished Italian tile. A small fountain was the source of water for a pebble-bottomed stream that had molded, concrete ovals placed as stepping stones. The plant materials included cotoneasters, Ilex bullata, Juniperus hetzi, azalea varieties, rhododendron varieties, hyacinths and cut-leaved Japanese maples.

Italian Garden

Landscape Associates exhibited a garden with an Italian theme. They too had a patio paved with tile im-



Landscape Associates, Inc., and Dalsimer, Inc., Brookville, L. I., N. Y., used an Italian treatment for their exhibit at the Long Island show, which placed second in the popular voting.

[Continued on page 70]

New Hampshire Meeting Hears Weed Control Talk

By Lawrence Dougherty

A talk on weed control; separate group meetings for florists, box plant growers and nurserymen, and the election of officers were the highlights of the annual meeting of the New Hampshire Plant Growers' Association, which was held February 21 in Putnam Hall at the University of New Hampshire, Durham.

Re-elected to lead the group as president was John Leahy, Jr., Meader's, Dover, who will represent the florists in the association. Also re-elected were Vice-president J. Raymond Hepler, Billy Hepler Seed Co., Durham, representing the seedsmen, and Secretary Lawrence Dougherty, University of New Hampshire. The new vice-presidents are Richard Perry, Dover, representing box plant growers, and Charles Still, Manchester, representing nurserymen. Chosen as treasurer was Paul Kimball, Exeter.

In opening the meeting, President Leahy presented Dr. Harold C. Grinnell, dean of the agricultural college, University of New Hampshire. Dr. Grinnell's principal comments dealt with the situation in the university as it relates to obtaining and holding research, extension and teaching personnel, because of the salary situation.

He said it had taken 16 months to

get a new head of the forestry department of the caliber that would permit a properly accredited department. Dr. Paul E. Bruns now holds this position. A new horticultural head is needed to replace Dr. A. F. Yeager, noted plant breeder, who is retiring. New personnel for extension work and research in ornamentals is also sought.

Dr. Grinnell said the university does not have its proportionate number of good men in agriculture; moreover, salary increases are necessary to keep those it has.

Horticultural Staff Introduced

Dr. William Smith, acting head of the horticulture department at the university, introduced the staff members and briefly indicated the work of each. He also mentioned the different fields in which horticultural research work is now being done. They include variety tests in vegetables, improvement of ornamentals, cultural studies with horticultural crops, nutritional studies, breeding vegetables, blueberry improvement and development, fruit rootstocks (for hardier, more productive fruit trees), breeding fruits, testing new horticultural materials and breeding and testing nuts.

Dr. Smith also reported for the

publicity committee and mentioned a new brochure to cover new and significant plant materials for New Hampshire, including introductions of the university in roses, monardas, chrysanthemums, raspberries and lilacs. The New Hampshire planning and development commission will publish this folder, and a list of sources of the materials will accompany the publicity folder. Both publications will be released this spring.

The membership was reported to have decreased to 125, partially because of the increase in dues. Need was expressed for more active membership committees in each county.

A motion was introduced to set up a committee to develop a program for furnishing plant materials to garden clubs and others who were cooperating with New Hampshire roadside improvement associates in planting and maintaining public gardens. This would apply particularly to the New Hampshire introductions and the Granite series of hardy chrysanthemums because of their color and easy maintenance quality.

Dr. Arthur Bing, associate professor, Cornell University ornamental research laboratory, Farmingdale, L. I., N. Y., was guest speaker in the afternoon, and his subject was "The Latest on Weed Control." In this illustrated talk, the data concerned weed control in pansies, gladioli, peonies, cymbidiums, roses and evergreens.

Dr. Bing stated that material reduction in weeding costs can be realized by the use of chemicals. Hand weeding of specialized crops may range from \$200 to \$800 an acre, whereas use of chemicals may reduce this to \$20 to \$300 per acre. If chemicals are properly used they may cause less damage than do mechanical methods.

He also said that steam is effective and the waiting period for planting is short.

Methyl bromide at one pound to 100 square feet for weed seeds and nematodes and four pounds to 100 square feet for fungi applied when soil temperatures are 60 degrees Fahrenheit or more is effective. It usually can be used safely in benches next to growing plants. A plastic cover is used. This chemical should never be used where carnations are to be planted.

Dr. Bing indicated that Vapam has proved satisfactory for pansies. The soil should be treated in late July or early August, in advance of planting. The cost is about \$300 per acre for material.

Crag Sesone has proved a good [Continued on page 79]

ELECTION AT RECENT RHODE ISLAND MEETING



Officials of the Rhode Island Nurserymen's Association elected at the group's annual meeting at Providence: Left to right, K. J. Murphy, East Providence, treasurer; Klaas Van Hof, Portsmouth, retiring president; Carl L. Vitale, Cranston, newly elected president, and Anthony Williams, Cranston, secretary.



Participants in the Massachusetts Nurserymen's short course held recently at the Waltham field station, Waltham, Mass.: Left to right (front row), Dr. Robert Ticknor, Seth Kelsey, Willard Bond, Gilbert E. Merrill, Dr. John Havis and Donald D. Wyman; (back row) Barry Real, Clifford Chater, Joseph Brine, George Tuoti, William Flemer III, Albert Dodge, Henry Gilbertson and John Dwyer.

Trees, Massachusetts Course Topic

By Herbert C. Fordham

The fourth annual short course for nurserymen sponsored by the Massachusetts Nurserymen's Association was held at the Waltham field station, Waltham, Mass., February 19 and 20. Favored by an exceptionally well-planned program and good weather, a near-capacity audience of over 200 attended the sessions. This year's short course was designed to cover the subject of trees—their selection, production, handling, use and care.

Seth L. Kelsey, Kelsey-Highlands Nursery, Inc., East Boxford, chairman of the M. N. A. educational committee, opened the meeting with a welcoming address.

The first speaker to be introduced was Donald D. Wyman, Bay State Nurseries, Inc., North Abington, Mass., who spoke on "Selection of Better Standards and New Varieties for New England." Mr. Wyman cited a number of examples of tree species found growing in New England that are not generally believed hardy in the area.

Tree Selection

He stated that in selecting the ideal tree for any situation one must consider several factors. Among these are hardiness of the species; rapidity of growth; relative freedom from insect pests and disease; beauty of foliage, flowers, fruit and bark; ability to recover after transplanting, and form. Mr. Wyman feels that a

tree's form is of greatest importance since a tree is clothed in foliage for only five months of the year.

In his talk, Mr. Wyman discussed the 10 trees that he considers most desirable for Massachusetts. Norway maple, with its red-leaved varieties, was recommended for its ease of culture and maintenance. The sugar maple was selected for fall color, and the pin oak for its sturdiness, pendulous form and rapidity of growth.

Rated high were the honey locust and its selected varieties, such as the Shademaster locust, which stands erect without requiring staking during its early stages of growth. Other thornless locust forms suggested were Imperial, Skyline and Majestic.

Completing his list, Mr. Wyman named European linden for its fine round-headed form and ability to assume good shade tree proportions quickly, the red oak and *Nyssa sylvatica* for excellent fall color, *Cercidiphyllum japonicum* and Washington hawthorn as good medium-size trees and the English beech for disease and insect resistance.

English beech, he feels, is not suited to the small home lot. In spite of its slow growth, it eventually attains too great a size for such use.

Outlines Nursery Practices

William Flemer III, Princeton Nurseries, Princeton, N. J., spoke on "Planting, Transplanting, Cultivating, Pruning and Root-pruning" as

practiced at Princeton Nurseries. Mr. Flemer placed emphasis on proper soil preparation prior to the planting of young trees.

It is of utmost importance, he stated, to select a well-drained site not only for the development of a good root system but for ease in digging. The use of a good cover crop one year in advance of planting was also recommended. This should be turned under as deeply as possible during late fall.

Trimming of young stock is most easily handled before the trees go into the field. He suggested that, in trimming trees which have an upright-branching habit, one should prune side branches two thirds and leave the terminal leader intact unless it is injured. Those trees which have a horizontal-branching habit are best pruned relatively close to the main leader, but one should not remove any of the lower branches at this time.

Mr. Flemer found, in regard to the use of sod vs. clean cultivation, that there was a far greater increase in caliper size of young trees when clean cultivation was practiced.

"Only after trees have attained a size of 3½ to 4-inch caliper," he stated, "do we advocate the use of sod between the rows, for it is at this time that we prefer to slow down a tree's rate of growth." Root-pruning, too, will generally slow down the

[Continued on page 48]



Speakers on the program of the Maryland nurserymen's short course held recently at the University of Maryland, College Park, Md.: Left to right, James Wells, James S. Wells Nursery, Red Bank, N. J.; Prof. R. P. Meahl, Pennsylvania State University, University Park, Pa.; Dr. Lee J. Enright, University of Maryland; Dr. Conrad B. Link, University of Maryland, and Gilbert Gude, A. Gude Sons Co., Rockville, Md., president, M. N. A.

Maryland Short Course

Highway Landscaping, Plant Exploration, Research, Plant Pests and Propagation, Were Topics Discussed

By Harry W. Dengler

Despite bitter cold and one of the windiest winter days on record, a capacity group of nurserymen, their wives and guests were on hand to hear an unusually varied and full program at the annual Maryland nurserymen's short course on February 19. Headquarters for the course was the Student Union building, University of Maryland, College Park, Md. Gilbert Gude, A. Gude Sons Co., Rockville, president, Maryland Nurserymen's Association, presided at both the morning and afternoon sessions.

The program got under way with a discussion on the plants to be used and the landscape techniques involved in planting the 353 miles of interstate highways planned in Maryland by the federal government. The speaker, Charles R. Anderson, landscape superintendent, Maryland state roads commission, Baltimore, reported that the federal government is to pay 90 per cent of all landscaping costs.

All plantings are to be mulched with a 4-inch coating of wood chips. This should cut watering costs by about 90 per cent and assist the plants in becoming properly established. An occasional top-dressing of

a nitrogenous fertilizer will be given the mulched plants to offset any nutrient deficiencies if these should appear.

Native Materials Preferred

Native trees and shrubs will be used whenever practical. Trees of 2½ to 3-inch caliper will be favored, since the planting of whips has not proved successful. It is planned to use mostly balled and burlapped stock, including deciduous shrubs, Mr. Anderson said. Red and sugar maples and pin, scarlet and willow oaks will be favored when suitable and adapted to the sites. The thornless variety of honey locust will be used because of its ease in transplanting, and ash and linden trees will be included.

Crab apples, hawthorns and dogwoods in the 4 to 5-foot and the 6 to 8-foot classes will be used also. The crab apples, Mr. Anderson related, transplant well and are attractive both in flower and fruit. Since the dogwoods, however, do not thrive in hot roadside areas, their use will be restricted to woodland edges.

White and Austrian pines will be used rather heavily in industrial areas, while Scotch and Japanese

white pines will be planted elsewhere. Holly, because of its beautiful foliage and fruits, will be used when suitable. The Japanese rose and other shrubs will be used to delineate curves and to serve as traffic barriers.

While the reduction of headlight glare has often been discussed, little research has been done on the subject. Maryland plans, Mr. Anderson reported, to experiment with various plants and designs to find out exactly how this annoyance can be remedied. Mr. Anderson concluded his discussion with a series of slides depicting the uses of various trees and shrubs in roadside landscaping.

Dr. Fred Meyer, taxonomic botanist, United States Department of Agriculture plant industry station, Beltsville, Md., gave an entertaining account of his 9-month plant exploration trip to Europe in 1957. This trip, he said, was undertaken in co-operation with Longwood Gardens, Kennett Square, Pa., which are interested in introducing plants of value not yet found in this country. Dr. Meyer covered 15,000 miles visiting 80 different nurseries, public and private gardens, arboreta and experiment stations, completely backtracking his itinerary in order to see plants at two different seasons of the year.

The Riviera section of southern France was found to be most productive; Spain was rather poor in cultivated plants but rich in wild ones. Much interest on plant cultivation was shown in Portugal. A beautiful sight there, Dr. Meyer recalled, was the crape myrtles used as street trees. Any nurseryman visiting Lisbon was advised to take several days to see the horticultural points of interest, which are not listed under any of the tours or in the guide books.

The French have gone to great lengths to make their section of the Riviera a tropical paradise. Dr. Meyer, who illustrated his talk with colored slides, stated that he was permitted to visit the gardens of Prince Rainier of Monaco. Near Venice, Italy, is the oldest botanic garden in the world. This was established about 1543, and the original walls still stand.

Among the many eye-catching scenes shown and described by Dr. Meyer was a 2-acre forest of towering cactus plants in a setting of rocks traversed by narrow, switch-back paths. Slides showing the original plants of the Peace rose were of considerable interest to the rose-growing nurserymen attending.

A unique plan of inarching acid [Continued on page 60]

Progress, Canadian Convention Theme

Plant Patents, Seed Buying, Container Growing and Garden Centers Discussed

By L. C. Keith

More than 200 nurserymen of Canada attended the 36th annual convention of the Canadian Association of Nurserymen, held at Prud'homme's Garden Center, Vineland Station, Ont., February 23 to 25. Never were the general meeting and sessions for growers, landscapers and garden center operators better attended nor was interest keener.

The theme of the convention, "Change of Pace," was in keeping with the challenge facing the industry to keep abreast with the times and to find newer and more efficient methods of producing and distributing stock to meet the public demand.

Highlighting the annual business meeting held the last morning were the election of officers, the plant patent vote and the address of the president. J. E. Shuttleworth, Little Tree Farm, London, Ont., was elected president of the association for the coming year, succeeding W. B. Wellington, Fonthill Nurseries, Fonthill, Ont. The other officers elected were as follows: First vice-president, J. McDonald, Lacombe Nurseries, Lacombe, Alta.; second vice-president, W. H. Perron, W. H. Perron & Co., Ltd., L'Abord a Plouffe, Que., and secretary-treasurer, J. R. Burns, Ottawa, Ont.

Directors for the year are V. Johnson, New Westminster, B. C.; L. Hancock, Woodland Nurseries, Cooksville, Ont.; H. Eddie, H. M. Eddie & Sons, Ltd., Vancouver, B. C.; George Downham, H. C. Downham Nursery Co., Ltd., Strath-



W. B. Wellington, (left), retiring president of the Canadian Association of Nurserymen, congratulates J. E. Shuttleworth, newly elected president, and his wife at the C. A. N. convention at Vineland Station, Ont., Canada.

roy, Ont.; Carl Luck, Royalvale Nursery, Ltd., Montreal, Que.; Frank Fillmore, Fillmore's Valley Nurseries, Ltd., Centreville, N. S.; Les Solty, Leslie L. Solty & Son, Toronto, Ont., and Len Cullen, Weall & Cullen Nurseries, Willowdale, Ont.

For three days the question of plant patents was discussed and was one of the most controversial issues at the convention. The proposal to have the Canadian association endorse plant patents and to have it do what it could to have plant patent protection made available in Canada was defeated by vote.

In his presidential report, W. B.

Wellington outlined the activity of the association during the year. He mentioned that the membership of the association is the largest in its history. New groups have been organized in Alberta, Saskatchewan and Manitoba, as well as a group known as the Prairie Nurserymen's Association. In addition to these, there are active groups in other parts of Canada.

He spoke of the advertising program and the publicity program, which included the development of a pamphlet, Your Guarantee, and a planting guide booklet. Films were made available to members. He spoke of the important role of the



Program speakers at the recent convention of the Canadian Association of Nurserymen: Left, Jack Hill, D. Hill Nursery Co., Dundee, Ill., who spoke on container stock; right, members of a panel on seed buying: Moderator (standing), Prof. J. C. Taylor, Ontario Agricultural College, Guelph, and, left to right, W. H. Perron, Montreal, Que.; C. De Groot, Toronto, Ont.; Philip Jones, George J. Ball, Inc., West Chicago, Ill., and W. E. Edwards, Angus, Ont.

Canadian Horticultural Council, which funnels matters pertaining to the industry to the appropriate committees set up by the government. He mentioned plant patents and the 11th annual short course.

He reported on the work of the education committee and the progress on the proposed Ontario horticultural diploma correspondence course sponsored by the Ontario Agricultural College, Guelph, Ont. He noted the increase of imports of nursery stock from the United States and stated that this should be of interest to any factions in America who anticipated setting up restrictions that might affect the export of nursery stock to the United States.

Financial Position Strong

He reported the financial position of the association as being strong and paid tribute to departed members Bill Haist, Stan Wellington and Francis Meillard. He spoke of the close cooperation between the Canadian association and the American Association of Nurserymen and the benefits derived from the exchange of bulletins and publicity releases. The association also keeps a record of slow-paying accounts for member information.

Plant production research was mentioned and the advantage to the association of having the interest and cooperation of Dr. Stuart Nelson, Canada department of agriculture, Ottawa, who is chairman of the committee. Mr. Wellington concluded his report on activities of the past year by thanking the executives and members of the association.

Many of the delegates arrived the day before the official opening of the meeting on Monday morning, February 23, to enjoy a social get-together on the eve of the convention. The Ontario association acted as host, and a happy time was spent meeting and greeting friends and acquaintances. From the weather standpoint, those who arrived early were fortunate, for on Monday morning the weatherman played havoc with the roads to Vineland Station, and traveling conditions were at their most hazardous.

Opening Session

The 36th convention opened with the general chairman, C. M. Barron, Fonthill, Ont., welcoming the members and turning the meeting over to Prof. C. E. McNinch, Ontario Agricultural College, Guelph, Ont., general chairman of the growers' session. The first speaker was Dr. S. H. Nelson, Canada department of agriculture, Ottawa, who gave a report

of the Plant Propagators' Society meeting at Cleveland last December.

A panel discussion on what to look for when buying seeds proved of general interest. Prof. J. C. Taylor, Ontario Agricultural College, acted as moderator and put questions to the four members of his panel, C. DeGroot, Sheridan Nurseries, Ltd., Sheridan, Ont.; W. H. Perron; Phil Jones, George J. Ball, Inc., West Chicago, Ill., and W. E. Edwards, Ontario Tree Seed Plant, Angus, Ont.

Mr. Jones said it was important for one who is buying seeds to have confidence in his dealer. A good dealer gives consideration to five basic points: (1) Seeds must be grown, cleaned, stored and packaged properly; (2) seeds as kept by a dealer should be tested regularly for germination; (3) seeds should be true to name and labeled correctly; (4) dealers should be in a position to give cultural data that might be requested, and (5) dealers should give adequate service.

When asked about the advantages of collecting one's own seeds, Mr. DeGroot stated that he considers the practice beneficial in obtaining good germination and in determining the correct time for sowing. Mr. Edwards stated that his firm collects its own seeds because no commercial firm supplies the type of seeds required.

Grass Seed Mixtures

The discussion concluded with detailed remarks on grasses and grass seed mixtures for central and eastern Canada by Mr. Perron. He pointed out that grass lawn seed mixtures offer a large and interesting field for fly-by-night salesmen and urged that before one buys seeds he should investigate, have samples analyzed or buy from responsible members of the Canadian Association of Nurserymen.

His suggestion for a good all-round, inexpensive lawn seed mixture for sunny and partly shaded situations was 30 per cent Kentucky bluegrass No. 1, 10 per cent Canada bluegrass No. 1, 30 per cent red creeping fescue No. 1, 10 per cent red top No. 1, 10 per cent Highland Bent No. 1 and 10 per cent ryegrass No. 1.

Mr. Perron stated the mixture can be improved by doing away with ryegrass altogether and replacing it by increasing the proportions of Kentucky bluegrass and red creeping fescue to 35 per cent each. This would cost more, however, and customers would not be satisfied at first.

[Continued on page 133]



D. P. Henegar, new executive secretary of the Southern Nurserymen's Association.

SOUTHERN MEETING

The board of directors of the Southern Nurserymen's Association met at the Robert Myer hotel, Jacksonville, Fla., February 27 and 28 and named D. Porter Henegar, McMinnville, Tenn., executive secretary of the organization. Mr. Henegar replaces Leo B. Scott, Spartanburg, S. C., who was unable to continue in the position because of illness.

Mr. Henegar, a former nurseryman, is also the newly appointed executive secretary of the Tennessee Nurserymen's Association and serves the McMinnville chamber of commerce as executive secretary on a part-time basis. Previously he had been president of both groups.

Attending the executive committee meeting were President Hubert A. Nicholson, Commercial Nursery Co., Decherd, Tenn.; vice-president and director Edwin Fraser, Southern States Nurseries, Macclenny, Fla.; directors George Coulter, Carolina Nurseries, Charlotte, N. C., and Robert W. Boyd, Globe Nurseries, McMinnville; treasurer James Stubbs, Atlanta, Ga.; past president Dan Reynolds, L. A. Reynolds Co., Inc., Winston-Salem, N. C.; James Patterson, chairman of the research workers' council, and Mr. Henegar.

Other Business Activities

The business activities also included the appointing of Herman Owen, T. G. Owen & Sons, Columbus, Miss., to the unexpired directorship of Tom Dodd, Jr., Tom Dodd Nurseries, Semmes, Ala., who had resigned. There was also much discussion about the S. N. A. convention, which will be held at the Robert Myer hotel, Jacksonville, August 23 to 25.

Sponsor Local Landscape Workshop

By W. I. Huddleston

The Iowa-Illinois Association of Professional Landscape Men and Nurserymen, composed of leading nurseries at Davenport, Rock Island and Moline and in surrounding communities, recently completed a highly successful landscape workshop.

A committee was appointed last September to promote and conduct an information school on landscaping that would be open free to the public. This committee was composed of W. I. Huddleston, Platt's Landscape Nursery, Davenport, chairman; George Scherer, Scherer's Garden Center, Rock Island, and Mike Hansen, Hansen's Nursery, Long Grove, Ia. It was decided to call this educational program a landscape workshop and to offer it on five consecutive Tuesday nights beginning February 10.

The posters and newspaper advertisements prepared by the association to promote the affair were supplemented with free publicity on radio and television programs featuring local events and in newspaper articles. The association also printed a quantity of programs, which were distributed to various service organizations to be distributed to their members. This last phase of the publicity campaign, however, proved rather costly for the response it brought.

A room was rented at the Rock Island Y. W. C. A. in which to hold the workshop sessions. Two telephone numbers were advertised for persons wishing to call for reservations, and registration blanks to be

turned in to member nurseries were provided in the newspaper advertisements and in the programs sent to the service clubs.

Response Gratifying

The response was greater than was anticipated, and late reservations had to be refused because of lack of room. Actual attendance averaged about 100 persons, despite the fact that the area experienced some of its worst winter weather on two of the nights.

The success of the workshop publicity is pointed up by the fact that persons who had sponsored similar programs in other fields had advised the committee that it would be lucky to get an attendance of 50. Names and addresses secured through the reservations and from a door prize drawing on the last night are being compiled and will be sent to the participating nurseries.

Local nurserymen or their employees presented the lectures on the program, except for the talks on annuals and perennials delivered by two local women well versed in these subjects, who did a commendable job. The workshop sessions each evening consisted of two 55-minute periods, each including a 45-minute lecture and a 10-minute question and answer discussion. During a 10-minute break between the two periods, coffee and doughnuts were served.

The following are the subjects covered and the time allotted to each: First night, trees (45 minutes) and lawns (45 minutes). Second night, evergreens (45 minutes) and shrubs (45 minutes). Third night, landscape design (45 minutes), annuals (22 minutes) and perennials (22 minutes). Fourth night, roses (25 minutes), vines and ground covers (20 minutes), broad-leaved evergreens (20 minutes) and fruits (25 minutes).

On the last night, patios, walls and pools were discussed in a 30-minute lecture. The rest of the time was devoted to questions not previously covered and to the showing of the American Association of Nurserymen film, "Basic Technique for Home Landscaping" and an Ortho film on orchids. Advertising was eliminated from the workshop sessions as completely as possible, the participating members feeling that the good will created would repay



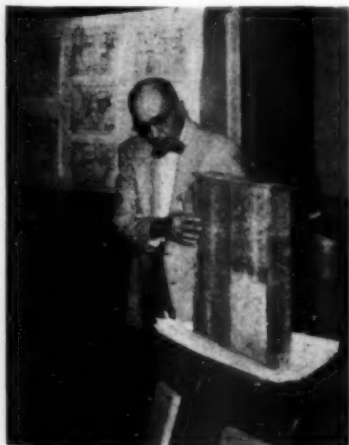
Walter Brakeman, Home Nursery, Lafayette, Ill., talked on landscape design.

them amply for the time and money spent on the project.

Trophy Awarded at Last Session

At the last session a trophy was presented to an individual in the area who had made outstanding contributions to the fields of landscaping or gardening. This trophy, which is to be an annual award, was designated as the William H. Mast memorial trophy, in memory of Mr. Mast, late owner of the Davenport Nursery, Davenport, Ia., who died at the Dallas A. A. N. convention last summer.

The trophy was donated and presented by Mrs. Mast to a local woman who has done much work for the garden club as well as in her own garden. This presentation appeared [Concluded on page 40]



W. I. Huddleston, Platt's Landscape Nursery, Davenport, talked on patios.



Neal Rohlf, Neal Rohlf Nursery & Garden Center, Davenport, talked about roses.



Main entrance at Hastings' new garden shopping center in southwest Atlanta, Ga. Service door to shop and double service door to warehouse facilitate loading of bulky items by customers. There are parking facilities on three sides of the establishment.

Hastings' Third Center Serves Atlanta

The third garden shopping center to be established by the H. G. Hastings Co., seedsmen and nurserymen, Atlanta, Ga., was opened recently on Cascade road at Fairburn road, nine miles southwest of downtown Atlanta. Located on a 6½-acre tract, the brick and concrete block garden store occupies 32,000 square feet. Additional supplies of stock items are kept in an adjoining warehouse of the same size.

Supervised by Alan Standard, the store offers extensive seed and bulb displays, pottery and house plants in addition to gardening supplies and equipment. Also featured is a well-stocked pet department, including a selection of books on the care and training of pets, under the management of A. A. Camp. Modern wash-room facilities are provided for the customers' convenience, and all en-

closed areas are air-conditioned in the summer and heated in the winter.

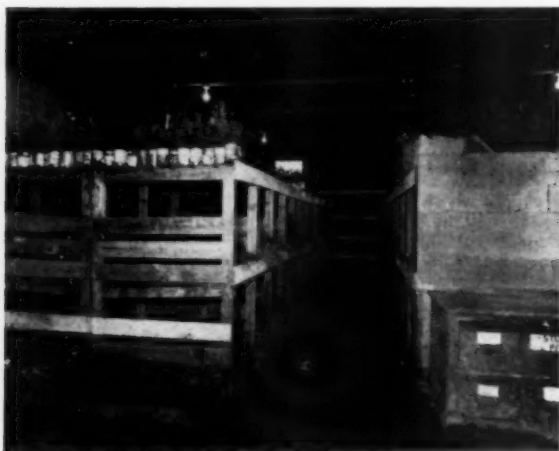
A 100x100-foot nursery sales area, shaded with roof and walls of snow fencing, is reached directly from the store. Manager of the nursery department is Raiford Broome, formerly of Shreveport, La. The plant beds in the nursery area are drained by means of a tile system, and the walks throughout are concrete. A paved area surrounding the store, warehouse and nursery salesyard provides parking facilities for 150 cars.

The concrete block packing shed, located down a slope from the garden store, affords facilities for packing orders to be shipped by mail. Bin storage is provided in the shed for certain stock items, such as roses, and other plant materials are avail-

able in an adjoining heeling-in area that extends over approximately three acres.

Held late last year, the garden center's grand opening proved highly successful, despite extremely cold and rainy weather. Representatives of several manufacturers and suppliers were present to assist Mr. Standard and the department heads in welcoming the many visitors and answering their questions. Refreshments were served and free gifts and prizes offered, including 2,500 dog-woods.

The H. G. Hastings Co. opened the first of its garden shopping centers, located about five miles north-east of downtown Atlanta, in 1955, with Charles J. Hudson, Jr., as manager. The second, managed by Francis B. Pool, was opened at Charlotte, N. C., in 1957.



Bin storage for plants in packing shed, at left, and, right, cashier's stand, with bulb, book and flower seed departments in background, at recently opened Hastings garden center shop in new residential area at Atlanta, Ga.

Papers Heard at Shade Tree Meeting

By Noel Wysong

The 14th annual meeting of the Midwestern chapter of the National Shade Tree Conference, held February 13 to 20, at the Hotel La Salle, Chicago, Ill., was declared in session Wednesday morning, February 18, by Marvin Stevens, president.

President Stevens then extended a warm welcome and spoke of the values to be derived from a meeting of persons having common interests. Prominent among those values were those of establishing better trust and fellowship among arborists. The Midwestern chapter of the N. S. T. C., he said, is created to build friendly relations among tree workers and, through exchange of knowledge, improve tree care service. He reminded the members that the chapter is growing in size and influence and urged attendance at all sessions, including the business meeting.

Useful Tools for Tree Troubles

The first formal paper of the program was presented by J. C. Carter, head of the section of botany and plant pathology, Illinois natural history survey, Urbana. With "Tools Useful in Diagnosing Tree Troubles" as his subject, Dr. Carter defined the term "diagnosis" as "the art of recognizing the presence of disease from its symptoms and deciding on its character." In performing diagnoses of tree ailments, numerous tools are useful and some are essential; these include a sharp knife, shears, ax, saw, extension pruner, shovel, hand lens or magnifying glass and, for special conditions, a leather punch, field glasses, profile tube, soil test kit, tissue test kit, increment hammer, increment borer and an aquaprobe.

Displaying the various tools mentioned and using color slides to illustrate his remarks, Dr. Carter described in detail the uses to which each of the tools might be put. A knife, he said, is used to collect small branch samples and to remove sections of bark from limbs or trunk in searching for symptoms of fungus infection or insect infestation. Hand shears can be used in collecting branch samples for laboratory culture, and an extension pruner can be used for the same purpose when suspected infected branches are high in the tree. An ax is used to cut through heavy bark to examine the inner tissues or to drive a punch through the

bark to obtain small specimens for use in diagnosing such diseases as phloem necrosis. A saw is needed to remove larger, infected limbs.

A shovel and a profile tube are used, he said, in checking on soil conditions, taking soil samples for testing, detecting the presence of girdling roots and removing the soil to check on the health of the roots. Rating a hand lens as almost indispensable in diagnosing tree troubles, Dr. Carter said this instrument makes it possible to see and identify such small objects as the fruiting bodies of fungi, red spider mites and the crawlers of scale insects. Field

glasses are useful, he said, in examining branches high in the tree and locating and identifying such ailments as an infestation of scale insects, bark cankers and wounds.

Use of Soil Test Kit

Dr. Carter suggested the use of a soil test kit to determine the fertility and pH of soil when the tree appears to be troubled by nutritional deficiencies. Somewhat similar in nature is the tissue test kit; with this kit the nutrients in the leaf tissues may be determined as an aid toward applying the proper kind and amount of fertilizer.

An increment hammer, Dr. Carter said, is used to take short cores of bark and wood in examining for bark canker and streaking or discoloration in the sapwood. The increment borer may serve the same purpose, but with this tool a long core of wood, extending well toward the center of the stem, may be taken. Examination of a wood core may reveal the presence of such diseases as verticillium wilt, wood rot, wetwood and others; the growth rate of the tree can be ascertained by counting the number of annual rings per inch on the wood core. The aquaprobe, a rather new tool on the market, is useful in measuring the relative moisture content of the soil.

"Trees for Street and Home Planting" was the subject of an excellent talk presented by John C. Van Camp, Midwest Shadetree Consultants, Rockford, Ill. Pointing out that a large percentage of the trees in both street and home plantings in most midwestern communities and cities consists of elms, Mr. Van Camp said many of these communities probably would be faced shortly with the problem of removing many dead trees caused by the presence of Dutch elm disease in the area. As these elms die they will be replaced with other trees; new communities now in the process of development also will be planting trees. In all cases, he emphasized, the selection of species for planting should be based on such factors as street width, tree lawn width, sidewalk width, distance to buildings, building height, traffic conditions, the location of both overhead and underground utilities, growth habits and maintenance requirements.

Limited space above the tree may
[Continued on page 124]

NEW A.A.N. BOARD MEMBER



James B. Fitzpatrick

The board of directors of the American Association of Nurserymen recently announced the appointment of James B. Fitzpatrick, Texas Nursery Co., Sherman, Tex., to represent region V of the A. A. N., filling the vacancy created by the death of C. J. Lauden. The appointment will run until the board of governors meets at the A. A. N. convention at Philadelphia in July.

Mr. Fitzpatrick was born at Sherman in 1909 and was educated in the public schools there. He was graduated in 1931 from Texas A. & M. College, College Station, with a degree in landscape art. He first began working for Texas Nursery Co. in 1917, and except for his time at college, a few years with the national park service, active duty with the civilian conservation corps and three years with McNeal Construction Co., San Antonio, he has been with the company since that time. He became a vice-president in 1947, general manager in 1952 and president in February, 1958. He served as president of the Texas Association of Nurserymen in 1951-1952.

Merchandising Nursery Stock, Long Island Meeting Topic

By Robert H. Brewster

Merchandising of nursery stock and bedding plants were among the subjects discussed at the recent Long Island meeting for nurserymen, garden supply dealers and bedding plant growers held at Knapp Hall, Long Island Agricultural and Technical Institute, Farmingdale. Session chairmen who represented sponsoring groups included Prof. Joe Roesch, of the institute; George Runge, Nassau county extension service; Robert Brewster, Suffolk county extension service, and George Hren, Huntington Station, president of the Long Island Nurserymen's Association.

Harry Raben, Syosset garden supply center operator, discussed how dealers should consider the various types of businesses. The choice between a self-service or customer-service operation is affected mainly by the neighborhood where the center is located and by trial-and-error results. Each center must develop its own merchandising policy. That is, the average amount that one's customers purchase must be determined, and then the dealer must supply merchandise for this price bracket. The speaker suggested keying merchandise and tabulating sales by a bimonthly system in order to see how much moves. Mr. Raben suggested budgeting or planning purchases in advance to help insure a good turnover each season.

Stressing seasons and merchandise for each season, with an overlapping of exhibits, is desirable. Have sales at the end of each season. Sell by suggestion. As a rule, customers buy promises and are in-

fluenced by the label and picture which accompany products. Mr. Raben suggested cultural instructions, booklets that may be given away by various manufacturers and paper-bound garden booklets.

Tie-in Sales

Tie-in sales are important too. According to Mr. Raben, about one third of the goods in his garden supply center are sold through impulse buying. Therefore, in sales of roses, for instance, the garden supply dealer should have, close at hand, rose fertilizers, pruning shears and illustrations on how to prune roses, stakes, ties and insecticides particularly for roses. These displays should be bright and brief and should tell a story. It is best if they are placed at the eye level of the average woman and are easily accessible.

Publicity and advertising should be a fixed operational cost. The amount spent depends on the competitors and the size of the community. Large New York city department stores spend 3 to 5 percent on advertising. They recommend showing prices, being specific as to the time and place of the sales, and the use of leaders.

Institutional advertising helps to keep the firm's name before the public. Manufacturers should do the brand advertising. Even the appearance of the center or place of business may be a form of advertising. If the garden center does a great volume of sales, then perhaps newspaper advertising might produce the best results, but this is an expensive form of advertising. Direct mail

is especially good for some particular areas on Long Island, if the center is small and has a selective customer appeal.

Merchandising Bedding Plants

Arthur Thomas, Syosset, reported that the bedding plant industry has grown from virtually nothing to a large-size industry on Long Island. Garden supply centers must make rapid turnover of bedding stock, and it is difficult to determine costs and, therefore, profits. Wholesale plant producers must grow bedding plants on an assembly line basis. The retail grower of bedding stock should be more careful in his growing, yet at the same time be in a position to buy and sell bedding stock. Mr. Thomas thought that a broker system was needed to help the retailer.

Regarding advertising policy, Mr. Thomas thought that each business must have its own personality, which its advertising should express. Advertisements should excite the interest of the public. Sales leaders are necessary to bring in the traffic.

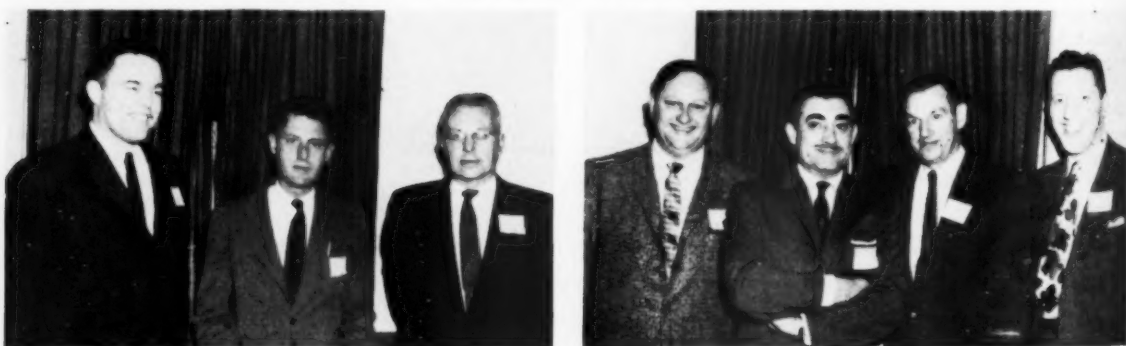
In the producing of bedding stock, he suggested that whatever growing medium is used must be sterilized. The medium and type of container used are matters of the grower's preference. He uses pony or market packs.

Customer Reactions

George Hren headed a panel of five local homeowners, or customers, who spoke their minds. They reported that they want service. They, as a rule, do not have enough storage space in modern houses and, therefore, are looking for better plant containers.

A survey made at Pennsylvania State University, University Park, indicated the public has a limited knowledge of nursery products. In many cases the homeowner buys the

[Continued on page 80]



Speakers at the meeting held for nurserymen, garden supply dealers and bedding plant growers at the Long Island Agricultural and Technical Institute, Farmingdale, L. I., N. Y.: Left to right (at left), George Runge, Peter Costich, and Prof. John C. Cornman; (at right) George Hren, Harry Raben, Arthur Thomas and Robert Brewster.



VAPAM® cleans your soil . . . helps build your profits

When you treat your soil with VAPAM soil fumigant, you help your plants grow faster, produce better. That's because you control most soil pests including weeds, nematodes, soil fungi and many soil insects.

By reducing these pests you save time, labor and production expense. In addition, your soil can give its full growth-producing power to your plants . . . to help you earn top profits.

VAPAM is a liquid, easier to apply and safer to use than other soil fumigants. You drench or mix it right into the soil. Special application equipment is not necessary. Covers are not needed for treated areas. Harmful residues

are not left in the soil after the fumigant evaporates.

VAPAM is recommended for propagating bed soils, potting soils, top-dressing soils . . . in fact, practically any soil you expect to use for seeds, bulbs or transplants.

You can use VAPAM in greenhouses, but certain precautions must be followed. Full directions are on the label.

See your local supplier, or write to the address below for an informative pamphlet.

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THE BIG NEWS IN
BIGGER PROFITS

Cloverset POTS

More than 20 years ago, nurserymen were introduced to a new wrinkle in plant containers—the Cloverset Pot. It was a low-cost container that made cash-and-carry sales more profitable. It stimulated more sales, because it enabled nurserymen to economically pot stock previously sold bare root and to present it for sale in a more attractive form—alive and growing, yet simple to set out. Millions of Cloverset Pots have been made and used in the last 20-odd years and they still tell the same profitable story. If you've never tried them, order a sample set now.

HERE'S WHY CLOVERSET POTS ARE SUPERIOR TO OTHERS:

1. Lasts a full year or more in the sales frame.
2. Contains roots safely within the soil ball; permits transplanting any time.
3. Has adequate bottom opening for good drainage without water-logging; no gravel necessary.
4. Rests on wide bottom; no blowing over in the frames.
5. Available in sizes to accommodate stock of any salable size.
6. Is neat and uniform in appearance, an asset to the sales area.
7. Tough enough to permit easy handling in potting shed and frame.
8. Easy for customers to remove—at once, a week later or even a month after they take stock home.
9. Lightweight (but with all these qualities) to save on freight costs.
10. . . . and sufficiently low priced so that it may be given away with the plant.

SIZES FOR EVERY NEED

Roses, Perennials, Shrubs and Young Trees

Size	Height	Top Diam.	Nearest Clay Pot	No. in Carton	WEIGHT Per 1000	F.O.B. Kansas City	Cloverset Pot Prices
No. 0	5 1/2 ins.	5 ins.	6 ins.	200	210 lbs.	Per 100 \$4.25	
No. 1	6 1/2 ins.	6 ins.	7 ins.	100	340 lbs.	5.25	Per 1000 \$40.00
No. 2	9 1/2 ins.	7 ins.	8 ins.	100	535 lbs.	5.75	55.00
No. 3	9 ins.	8 ins.	9 ins.	100	600 lbs.	6.25	60.00
						25 pots, \$7.70; 50 pots, \$14.60; 75, \$21.75; 100, \$26.15; 1000, \$231.00.	F.O.B. Kansas City.
No. 4	13 ins.	12 ins.	25	Per 100 133 lbs.		

Send in the Handy Coupon
for a Sample Set of
Cloverset Pots



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CLOVERSET FARM, DEPT. AN 49
10550 Wornall Rd., Kansas City, Mo.

- ☐ I enclose 50c; please send me a sample set of Cloverset Pots (limit, one set).
- ☐ Please send me information on Cloverset Pots and Cloverset Rose and Garden Dust.

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Kansas City 14, Mo.

COMING EVENTS

MEETING CALENDAR

April 9 and 10 — Holly Society of America, Inc., 26th meeting, Horticulture building, Rutgers University, New Brunswick, N. J.

April 11 and 12 — Canadian chapter, National Shade Tree Conference, annual meeting, Beacon Arms hotel, Ottawa, Ont., Canada.

May 5 to 8—Western chapter, National Shade Tree Conference, winter meeting, Richelieu hotel, San Francisco, Calif.

May 25 and 26—Short course for Texas nurserymen, Memorial Student Center, Agricultural and Mechanical College of Texas, College Station.

May 28 to 30—Florida Nurserymen and Growers Association, convention, Robert Meyer hotel, Jacksonville, Fla.

June 3 and 4—California Association of Nurserymen and the department of ornamental horticulture, California State Polytechnic College, San Luis Obispo, annual nurserymen's refresher course, Cal Poly campus.

June 7 to 9—Alabama Nurserymen's Association, annual convention, Admiral Semmes hotel, Mobile, Ala.

June 14 to 16—South Carolina Nurserymen's Association, annual convention, Wade Hampton hotel, Columbia, S. C.

June 18 and 19 — Fifth annual nurserymen's and growers' short course, University of Florida, Gainesville, Fla.

June 21 to 24—New Mexico Association of Nurserymen and Plains Nurserymen's Association, fifth joint convention, Holiday Inn motel, Roswell, N. M.

June 23 and 24—Short course for Missouri nurserymen, University of Missouri, Columbia, Mo.

June 28 to 30—Mississippi Florists' and Nurserymen's Association, convention, Eola hotel, Natchez, Miss.

July 18 to 23—American Association of Nurserymen, annual convention and trade show, Sheraton hotel, Philadelphia, Pa.

August 11 to 13—Ohio Nurserymen's Association, summer meeting, Lake Erie College, Painesville, O.

August 17 to 21—National Shade Tree Conference, annual meeting, Statler hotel, Detroit, Mich.

August 23 to 25—Southern Nurserymen's Association, annual convention, Robert Meyer hotel, Jacksonville, Fla.

CANADA TREE PROGRAM

The activities scheduled for the annual meeting of the Canadian chapter of the National Shade Tree Conference, April 10 and 11 at the Beacon Arms hotel, Ottawa, Ont., have been announced by C. G. Dobbin, secretary-treasurer of the chapter.

After registration Friday, April 10, a business meeting at 9:30 a.m. is planned, with Gordon A. McNair, city arborist, Hamilton, Ont., as chairman. A commercial arborist's

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P & D EXTRAS
at no added cost

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FRESH DORMANT ROSES
OVERNIGHT at No Extra Cost!

A special P & D service for areas suffering loss from winter damage. No more cost than regular pool car delivery and assures you of roses when you need them.

1. Every bush individually labeled.
2. Every bush top-tied.
3. Bushes trimmed to your specifications.
4. Free Color Pictures for each variety.
5. P & D Roses have pliable fibrous roots and short shanks, easier to pot.

PHONE, WIRE OR WRITE YOUR ORDER FROM THIS LIST

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- American Flagship
 - Angel Wings
 - Audie Murphy
 - Bingo
 - Blanche Mallerin
 - Burnaby
 - Charlotte Armstrong
 - Confidence
 - First Love
 - Fort Knox
 - Fort Vancouver
 - Forty-Niner
 - Fred Edmunds
 - Fred Howard
 - Golden Masterpiece
 - Golden Wings
 - Good News
 - Grande Duchesse
 - Charlotte
 - Lemon Chiffon
 - Lowell Thomas
 - Mirandy
 - New Yorker
 - Nocturne
 - Peace
 - Pink Favorite
 - Rose of Freedom
 - Sutter's Gold
 - Tallyho
 - The Duke
 - Tiffany
 - White Knight

PATENTED GRANDIFLORAS

- No. 1 No. 1 1/2
- Buccaneer
 - Carrousel
 - Dean Collins
 - Montezuma
 - Roundelay

PATENTED FLORIBUNDAS

- Amy
- Bellina
- Encore
- Fashion
- Fusilier
- Gold Cup
- Goldilocks
- Ivory Fashion
- Jimmy Cricket
- Ma Perkins
- Pinkie
- Pinocchio
- Red Pinocchio
- Spartan
- White Bouquet

PATENTED CLIMBERS

- Cl. Chrysler Imperial
- Cl. Coral Dawn
- Cl. Crimson Glory
- Cl. Golden Showers
- Cl. High Noon
- Cl. Parade
- Cl. Pinkie
- Cl. Spectacular

NONPATENTED HYBRID TEAS

- No. 1 No. 1 1/2
- Angel's Mateu
 - Christopher Stone
 - Condesa de Sastago
 - Crimson Glory
 - Eclipse
 - Frau Karl Druschki
 - Girona
 - Joanna Hill
 - K. A. Victoria
 - Mme. Henri Guillot
 - Mrs. E. P. Thom
 - Mrs. P. S. du Pont
 - McGredy's Ivory
 - McGredy's Scarlet
 - McGredy's Yellow
 - Picture
 - President Hoover
 - Radiance
 - Red Radiance
 - Saturnia
 - Shining Star
 - Signora
 - Sister Therese
 - Snowbird
 - Talisman
 - Texas Centennial
 - The Doctor
 - Virgo

NONPATENTED FLORIBUNDAS

- No. 1 No. 1 1/2
- Betty Prior
 - Charlie McCarthy
 - Else Poulsen
 - Floradora
 - Frensham
 - Garnette
 - Improved Lafayette
 - Poulsen's Bedder
 - Red Ripples
 - Royal Chinook
 - Snowbank
 - World's Fair

NONPATENTED CLIMBERS

- Cl. American Beauty
- Cl. City of York
- Cl. Doubleblooms
- Cl. Gold Rush
- Cl. Inspiration
- Cl. Mrs. E. P. Thom
- Cl. New Blaze
- Cl. New Dawn
- Cl. Paul's Lemon Pillar
- Cl. President Hoover
- Cl. Paul's Scarlet
- Cl. Ruth Alexander
- Cl. Snowbird
- Cl. Talisman
- Cl. Temptation
- Cl. Zenith

WHOLESALE PATENT PRICES

Retail Price	10 to 19 No. 1	20 to 99 No. 1	100 to 249 No. 1	250 and up No. 1
\$1.75	\$1.00	\$0.87 1/2	\$0.80	\$0.75
2.00	1.10	1.00	.95	.85
2.25	1.25	1.12 1/2	1.05	.95
2.50	1.40	1.25	1.20	1.10
2.75	1.50	1.37 1/2	1.30	1.20
3.00	1.65	1.50	1.40	1.30
3.50	1.85	1.75	1.55	1.40

Grade No. 1 1/2 is 20% less than No. 1 price

WHOLESALE NONPATENT PRICES

Grade	110 to 500 No. 1	510 to 1000 No. 1	1010 to 2500 No. 1	2510 to 5000 No. 1	5010 to 7500 No. 1
No. 1	60c each	57c each	54c each	55c each	54c each
No. 1 1/2	50c each	47c each	44c each	45c each	44c each

NOTE: Patent and nonpatent rose orders will be combined for quantity rate on nonpatent varieties.

SHIPPING PREPAID

at pool car rate (5c per bush). P & D pays balance of air freight.

Minimum order 100 Roses. Please specify if substitute variety or grade No. 1 1/2 may be shipped if desired grade or variety is out of supply.

Trimming: Your roses will be trimmed to 8 ins., 10 ins. or 12 ins. (specify which) to facilitate air shipment. Order today!



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THE COMING SHADE TREE



Immune to phloem necrosis, extremely resistant to Dutch elm disease. Imported from Europe by U. S. D. A. Straight trunks; no forks or crotches. Branches well distributed. Foliage dense, dark green, stays on late. Ideal for lawn, street and park planting.

	Suggested Retail	Per 10	Per 100
2 to 2½-in. cal.	\$22.50	\$85.00	\$750.00
1½ to 2-in. cal.	15.00	65.00	600.00
8 to 10 ft.	10.00	45.00	400.00

These are all own-root trees. Budded or grafted trees lose their disease resistance.

WILLIS NURSERY CO.

Your Wholesale Nurserymen
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meeting is scheduled after the noon lunch and the afternoon speakers will be Dr. A. W. McCallum; Dr. E. Mastromatteo, toxicologist, division of industrial hygiene, Ontario department of health, and Professor Osborn, department of entomology, Ontario College of Agriculture, Guelph. At the dinner meeting at 6:30 p.m., F. Earle Martin, Cedarville Tree Experts, Ltd., Toronto, Ont., president, N. S. T. C., and Mr. Adamson, vice-president, national capital commission, will be the speakers.

At 9:30 a. m., Saturday, April 11, scheduled for the program are A. R. Bicklet, curator, National Arboretum, Washington, D. C., who will speak on new trees, and Ralph Hayter, national capital commission, who will give a slide-illustrated talk on tree planting. Discussing Ottawa planning will be Peter Mansfield, city arborist. After lunch, the chapter will view commercial exhibits and demonstrations at the headquarters of the national capital commission and visit the design center at the Daly building to see plans of the future capital and a film. A banquet will end the meeting at 7 p. m.

HOLLY SOCIETY PROGRAM

Registration for the 26th annual meeting of the Holly Society of America, to be held April 9 and 10, will open at 2 p. m. on Thursday, April 9, at the horticulture farm No. 1, Rutgers University, New Brunswick, N. J. Registrants will visit the holly research facilities and test area of the farm before enjoying a social hour later in the afternoon and a dinner at the nearby Edgebrook restaurant. Programmed events for Thursday evening and Friday are as follows:

THURSDAY, APRIL 9

8 p. m. — Panel discussion on holly trends, with Dr. George S. Avery, Jr., moderator, and Dr. Clyde C. Hamilton, Rutgers University; Prof. Wallace Mitchell, Rutgers; Daniel Fenton, and Edgar H. Diehl, panel members, speaking on insects, soils and fertilizers, orcharding and the mail-order nurseryman, respectively.

9 p. m. — Holly research fund auction.

FRIDAY, APRIL 10

9:30 a. m. — Business session; reports of standing committees.

10 a. m. — "Holly, A New Frontier in New Jersey Agriculture," by Philip Alampi, New Jersey department of agriculture.

12 noon — Lunch.

1:30 p. m. — "Holly Genetics in Layman's Terms," by Richard Barrett, Rutgers University.

2 p. m. — "Physiology of Winterkill in Holly," by William E. Snyder, Rutgers University.

2:30 p. m. — "Romance of the Holly

Mr. Nurseryman **SAVE TIME SAVE MONEY** **SAVE POTTING COSTS** **WITH MENNE-POTS**

**EXTEND
YOUR
SEASON
USE
MENNE
POTS**



SUPERIOR STRENGTH

Built to last... the Menne-Pot will really take a beating and last a lot longer!

COMPLETELY ASSEMBLED

No waiting... start potting immediately. Solid stapled bottom. No heating required.

LIGHT WEIGHT

Save on freight costs... the Menne-Pot is light in weight but rugged! Easy to handle, economical to use.

DRAINAGE

No waterlogging... side drainage prevents it, even while sitting in yard. With the Regular Menne-Pot there's no transplanting; plant pot and all.

Size 0 Top... 4"
Bottom 3 1/2"
High... 4"
Weight per 100
Reg. 10 lbs. Heavy 25
Regular Weight
100 \$2.75 1000 \$25.00
Heavy Weight
100 \$3.75 1000 \$35.00

Size 0 1/2 Top... 5"
Bottom 4"
High... 5"
Weight per 100
Reg. 13 lbs. Heavy 30
Regular Weight
100 \$3.50 1000 \$32.50
Heavy Weight
100 \$4.50 1000 \$42.50

Size 1 Top... 6"
Bottom 5"
High... 6"
Weight per 100
Reg. 15 lbs. Heavy 35
Regular Weight
100 \$4.00 1000 \$37.50
Heavy Weight
100 \$5.25 1000 \$50.00

Size 2 Top... 7"
Bottom 5 1/2"
High... 9"
Weight per 100
Reg. 24 lbs. Heavy 55
Regular Weight
100 \$4.50 1000 \$42.50
Heavy Weight
100 \$5.75 1000 \$55.00

Size 3 Top... 8 1/2"
Bottom 6 1/2"
High... 9"
Weight per 100
Reg. 30 lbs. Heavy 70
Regular Weight
100 \$5.00 1000 \$47.50
Heavy Weight
100 \$6.25 1000 \$60.00

Size 4 Top... 10"
Bottom 8"
High... 10"
Weight per 100-120 lbs.
100 \$11.00
500 \$52.50 1000 \$100
*Heavy Only --
For trees and shrubs

Size 5 Top... 12"
Bottom 10"
High... 12"
LG POT
Weight per 100-250 lbs.
20 30c ea. 100 \$27.50
500 \$125 1000 \$225
*For extra-heavy
trees, large shrubs

Size Pan Top... 8 1/2"
Bottom 7 1/2"
High... 8"
PAN Weight per 100
Reg. 30 lbs. Heavy 70
Regular Weight
100 \$5.00 1000 \$47.50
Heavy Weight
100 \$6.25 1000 \$60.00

*MENNE-POTS shipped F.O.B. North Tonawanda, N. Y.

MENNE PEAT POTS

**Low Cost - Light Weight - Pre-Sterilized
Compact - Plant Pot-and-All - Plants Grow Faster**

Once you use a MENNE PEAT POT you'll never buy anything else. These top-quality domestic made peat pots save you labor of transplanting to field or bench. No labor and time wasted in storing pots. MENNE PEAT POTS also eliminate transplant shock and promote faster, stronger growth. You're sure to get top prices and more satisfied customers. For bigger profits next season, order your MENNE PEAT POTS today!

1 1/4" Square
2,500 to 17,500 \$ 7.00 per M
20,000 to 72,500 6.50 per M
75,000 and up 6.00 per M
2,500 per case 30 lb. per case

2 1/4" Square
2,000 to 18,000 \$11.00 per M
20,000 to 74,000 10.25 per M
75,000 and up 9.50 per M
2,000 per case 36 lb. per case

3" Square
1,000 to 9,000 \$18.25 per M
10,000 to 49,000 17.00 per M
50,000 and up 15.75 per M
1,000 per case 30 lb. per case

2 1/4" Round
2,500 to 18,000 \$ 7.25 per M
20,000 to 74,000 6.75 per M
75,000 and up 6.25 per M
2,500 per case 32 lb. per case

3" Round
1,000 to 9,000 \$13.25 per M
10,000 to 49,000 12.25 per M
50,000 and up 11.40 per M
1,000 per case 25 lb. per case

4" Round
500 to 2,500 \$29.25 per M
2,500 to 9,500 26.75 per M
10,000 and up 25.25 per M
500 per case 30 lb. per case

4" Azalea
500 to 2,000 \$24.75 per M
2,500 to 9,500 26.75 per M
10,000 and up 24.75 per M
500 per case 28 lb. per case

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Field growing perennials, evergreens and broadleaf for garden store sales.



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Size #5

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Size - PAN

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AN 4-1

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Address

City Zone State

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Patent No. 2,642,684

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
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Add \$2.00 to imprinted prices if imprinting is desired on both sides. Trade-marks billed at cost. Photos or black-and-white drawings must accompany trade-mark orders. Parcel-post shipment up to 20 lbs. Over 20 lbs., least expensive way possible—unless otherwise specified. All shipments F.O.B. DAYTONA BEACH, FLA.

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No.	Size	Per 1000	Imprinted Per 1000	Weight
No. 25	(1/2 x 5 ins.)			
1000 to 4000		\$5.50	\$7.00	1 1/4 LBS.
5000 to 9000		4.75	6.00	
10,000 to 49,000		4.00	4.75	
50,000 to 99,000		3.25	4.00	PER 1000
100,000 or more		2.50	3.25	
No. 87-87C	(3/8 x 7 ins.)			
1000 to 4000		7.50	9.00	2 1/4 LBS.
5000 to 9000		6.50	7.75	
10,000 to 49,000		5.50	6.25	
50,000 to 99,000		4.75	5.50	PER 1000
100,000 or more		4.00	4.75	
No. 47-47C	(3/4 x 7 ins.)			
1000 to 4000		8.50	10.00	3 LBS.
5000 to 9000		7.50	8.75	
10,000 to 49,000		7.00	7.75	
50,000 to 99,000		6.25	7.00	PER 1000
100,000 or more		5.50	6.25	

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PLASTIC "SLIP-ON" LABELS

SIZE	QUANTITY	IMPRINT NAME & ADDRESS	IMPRINT VARIETIES	IMPRINT TRADE-MARK	PRICE
NO. 25					
NO. 87					
NO. 87C					
NO. 47					
NO. 47C					

IMPRINT MY "SLIP-ON" LABELS AS FOLLOWS:.....

* A VARIETY LIST IS ENCLOSED.....(yes or no)

Made in U. S. A.

Business," by Larry Livingston, Cecilton, Md.
3 p. m.—Adjournment.

VIRGINIA SHORT COURSE

The fifth annual landscape short course sponsored by the Virginia agricultural extension service of the Virginia Polytechnic Institute, Blacksburg, in cooperation with the landscape division of the Virginia department of highways, will be held at Blacksburg May 5 to 7. The course is arranged especially for those engaged in the design, planting and maintenance of private homes, parks, golf courses and roadsides.

The opening session Tuesday afternoon, May 5, will be devoted to landscape aspects of interest to park superintendents and groundkeepers. Staff members of V. P. I. will conduct this session, which will include equipment demonstrations.

Wednesday, Frank C. Edminster, soil conservation service, will speak on "Soil Conservation and Highways," and T. M. Crowell, a Virginia nurseryman, will discuss "Propagation of Plants." Other topics presented during the day will be "Plant Diseases," by Dr. R. H. Gruenhagen, V. P. I.; "Control of Insects," by C. R. Willey, state entomologist, Richmond, and "Maintenance of Trees and Shrubs," by Alden Eaton, superintendent of grounds, Colonial Williamsburg, Inc.

A tour of experimental field plots of the Virginia agricultural experiment station is scheduled for the final day of the course, along with a visit to the V. P. I. arboretum.

This course is one of three being planned by V. P. I. for the spring and summer months. In addition to holding the May landscape course, the institute will cooperate with the Virginia Federation of Garden Clubs in presenting a series of four landscape study courses beginning April 6 to 8 at Richmond, and a garden lovers' short course will be given August 3 to 7 by the V. P. I. horticulture department.

OAKLAND SHOW PLANS

Eight acres of indoor and outdoor exhibits, including spectacular floral effects, practical modern gardens, greenhouse materials, the latest varieties of hybrid roses and theme gardens for modern living and gigantic shopping centers, will highlight the 27th annual California spring garden and home show, which will be held April 18 to 26 at the Oakland Exhibition building, Oakland. The designer, Howard Gilkey, has used the theme, "Northern Lights and

Cartwright Nursery Co.

Phone: UL 3-2352 Highway 72-57, 10 miles east of Memphis Collierville, Tenn.

TERMS: Net, 30 days. Interest at 6% on past-due accounts. 25 plants at the 100 rate.

SHIPPING: Stock sold F.O.B. Collierville, Tenn. We can make pool shipments to most points in the midwest and will be glad to arrange this for you.

AMERICAN ARBORVITAE VARIETIES

(Thuja occidentalis)		Per 10	Per 100
Dark Green American Arborvitae	30 to 36 ins.	\$2.25	\$2.00
	3 to 4 ft.	2.75	2.50
	4 to 5 ft.	3.50	3.00
Compacta erecta globosa Arborvitae	24 to 30 ins.	2.50	2.25
	30 to 36 ins.	3.00	2.60
Globosa (American Globe) Arborvitae	12 to 15 ins.	1.45	1.25
	15 to 18 ins.	1.80	1.60
Pyramidal American Arborvitae	24 to 30 ins.	1.80	1.65
	30 to 36 ins.	2.50	2.25
	3 to 4 ft.	3.00	2.75

ORIENTAL ARBORVITAE VARIETIES

(Thuja orientalis)		Per 10	Per 100
Baker Arborvitae	2 to 3 ft.	\$1.40	\$1.35
Berkmans Arborvitae	15 to 18 ins.	1.40	1.20
Blue Cone Arborvitae	24 to 30 ins.	1.45	1.25
	30 to 36 ins.	1.70	1.50
Bonita Arborvitae	12 to 15 ins.	1.00	.90
	15 to 18 ins.	1.35	1.20
	18 to 24 ins.	1.65	1.50
Excelsa Arborvitae	24 to 30 ins.	1.40	1.25
	30 to 36 ins.	1.70	1.50
Howard Arborvitae	24 to 30 ins.	1.40	1.25
	30 to 36 ins.	1.70	1.50

JUNIPERS, SPREADING VARIETIES

		Per 10	Per 100			Per 10	Per 100
Andorra Juniper, green	15 to 18 ins.	\$1.60	\$1.40	Hetz Blue Juniper	15 to 18 ins.	\$1.45	\$1.30
	18 to 24 ins.	1.90	1.75				
	24 to 30 ins.	2.50	2.25	Savin Juniper	12 to 15 ins.	1.00	.90
Pfitzer Juniper	12 to 15 ins.	1.25	1.10		15 to 18 ins.	1.35	1.20
	15 to 18 ins.	1.65	1.50				
Pfitzer Blue Juniper	24 to 30 ins.	2.75	2.50	Von Ehron Juniper	15 to 18 ins.	1.35	1.20
Compact Pfitzer Juniper	12 to 15 ins.	1.25	1.10				
	15 to 18 ins.	1.65	1.50	Repandens Juniper	(Virginiana repandens), dark green, good winter color		
Pfitzer Nana Juniper	12 to 15 ins.	1.25	1.10		12 to 15 ins.	1.00	.90
	15 to 18 ins.	1.65	1.50		15 to 18 ins.	1.35	1.20

JUNIPERS, UPRIGHT VARIETIES

		Per 10	Per 100			Per 10	Per 100
Juniperus virginiana glauca	3 to 4 ft.	\$3.75	\$3.50	Greek Juniper	(Juniperus excelsa stricta)		
Juniperus virginiana cernaerti	3 to 4 ft.	3.75	3.50		15 to 18 ins.	\$1.35	\$1.20
	4 to 5 ft.	4.75	4.50		18 to 24 ins.	1.65	1.50
Fastigiata Juniper	24 to 30 ins.	1.10	1.00	Hetz glauca Juniper, sheared pyramids	24 to 30 ins.	2.25	2.00
	30 to 36 ins.	1.40	1.25		30 to 36 ins.	3.00	2.75
	3 to 4 ft.	1.65	1.50		3 to 4 ft.	3.75	3.50
				Von Ehron Juniper, sheared pyramids	3 to 4 ft.	3.75	3.50

BROAD-LEAVED EVERGREENS

		Per 10	Per 100			Per 10	Per 100			Per 10	Per 100
Abelia grandiflora	2 to 3 ft.	\$1.25	\$1.00	Ilex opaca howardi	2 to 3 ft.	\$2.25	\$2.00	Lerodetalum chinense	(Texas Fringe)		
	3 to 4 ft.	1.50	1.25		3 to 4 ft.	3.25	3.00		18 to 24 ins.	\$1.15	\$1.00
Elaeagnus pungens	2 to 3 ft.	1.25	1.00		4 to 5 ft.	4.25	4.00		24 to 30 ins.	1.75	1.50
	3 to 4 ft.	1.75	1.50		5 to 6 ft.	5.50	5.00	Magnolia grandiflora	2 to 3 ft.	1.75	1.50
Eucynus coloratus	18 to 24 ins.	1.20	1.00	Ilex opaca Hume No. 2	3 to 4 ft.	3.25	3.00		3 to 4 ft.	2.75	2.50
	24 to 30 ins.	1.40	1.25		4 to 5 ft.	4.25	4.00		4 to 5 ft.	3.75	3.50
	30 to 36 ins.	1.75	1.50		5 to 6 ft.	5.50	5.00	Magnolia glauca (Sweet Bay)	2 to 3 ft.	1.50	1.25
Eucynus patens	18 to 24 ins.	1.20	1.00	Ilex vomitoria, small-leaved, sheared	18 to 24 ins.	1.15	1.00		3 to 4 ft.	2.25	2.00
	24 to 30 ins.	1.40	1.25		24 to 30 ins.	1.65	1.50		4 to 5 ft.	3.25	3.00
	30 to 36 ins.	1.75	1.50		30 to 36 ins.	2.25	2.00		5 to 6 ft.	4.50	4.00
	3 to 4 ft.	2.25	2.00		3 to 4 ft.	2.75	2.50		6 to 8 ft.	7.00	6.00
Ilex cornuta burfordi	15 to 18 ins.	1.10	1.00	Ilex vomitoria Pride of Houston	18 to 24 ins.	1.15	1.00	Nandina domestica	15 to 18 ins.	.80	.75
	18 to 24 ins.	1.40	1.25		24 to 30 ins.	1.65	1.50		18 to 24 ins.	1.00	.90
Ilex cornuta femina	15 to 18 ins.	1.10	1.00		30 to 36 ins.	2.25	2.00		24 to 30 ins.	1.40	1.25
	18 to 24 ins.	1.40	1.25	Ilex vomitoria nana (Dwarf Yaupon)	12 to 15 ins.	1.50	1.25		30 to 36 ins.	1.65	1.50
Ilex crenata Billox	Strong grower, very hardy, shears well				15 to 18 ins.	2.00	1.75		3 to 4 ft.	2.25	2.00
	15 to 18 ins.	1.10	1.00	Jasmine, floridum	15 to 18 ins.	1.15	1.00	Viburnum burkwoodi	18 to 24 ins.	1.65	1.50
	18 to 24 ins.	1.65	1.50		18 to 24 ins.	1.40	1.25		24 to 30 ins.	1.90	1.75
	24 to 30 ins.	2.25	2.00		24 to 30 ins.	1.70	1.50		30 to 36 ins.	2.25	2.00
Ilex crenata convexa	12 to 15 ins.	.90	.80		30 to 36 ins.	2.00	1.75	Viburnum chenaulti	18 to 24 ins.	1.65	1.50
	15 to 18 ins.	1.10	1.00	Ligustrum lucidum (Black Wax)	24 to 30 ins.	1.25	1.10				
	18 to 24 ins.	1.65	1.50		30 to 36 ins.	1.50	1.35	Viburnum juddi	15 to 18 ins.	1.40	1.25
	24 to 30 ins.	2.25	2.00		3 to 4 ft.	1.90	1.65		18 to 24 ins.	1.65	1.50
Ilex crenata rotundifolia	12 to 15 ins.	.90	.80	Ligustrum lucidum Suwannee River	15 to 18 ins.	1.50	1.25	Viburnum rhytidophyllum	(Leather-leaved Snowball)		
	15 to 18 ins.	1.10	1.00		18 to 24 ins.	2.25	2.00		18 to 24 ins.	1.65	1.50
	18 to 24 ins.	1.65	1.50		24 to 30 ins.	2.75	2.50		24 to 30 ins.	1.90	1.75
	24 to 30 ins.	2.25	2.00	Carolina Cherry Laurel	2 to 3 ft.	1.50	1.25		30 to 36 ins.	2.25	2.00
	30 to 36 ins.	2.75	2.50		3 to 4 ft.	1.75	1.50	Magnolia nigra	(Purple Magnolia)		
Ilex opaca, seedlings	2 to 3 ft.	1.70	1.50		4 to 5 ft.	2.75	2.50		2 to 3 ft.		
	3 to 4 ft.	2.75	2.50		5 to 6 ft.	3.75	3.50		3 to 4 ft.		
	4 to 5 ft.	3.75	3.50						4 to 5 ft.		
	5 to 6 ft.	5.50	5.00						5 to 6 ft.		
Ilex East Palatka	2 to 3 ft.	2.25	2.00	Laurel, sabeli	15 to 18 ins.	1.40	1.25				
	3 to 4 ft.	3.25	3.00		18 to 24 ins.	2.00	1.75				
	4 to 5 ft.	4.25	4.00								

DECIDUOUS TREES

		Per 10	Per 100
Magnolia nigra	(Purple Magnolia)		
	2 to 3 ft.	\$1.75	\$1.50
Magnolia soulangeana	(Pink Magnolia)		
	2 to 3 ft.	2.25	2.00
	3 to 4 ft.	3.00	2.75
	4 to 5 ft.	3.75	3.50
	5 to 6 ft.	5.00	4.50

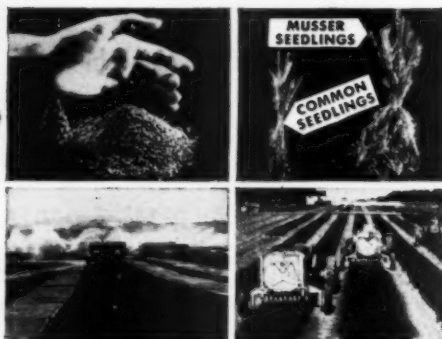
*20 MILLION TREES A YEAR!

*NOW OVER 35 MILLION!

MUSSER TREES BUILD SATISFIED CUSTOMERS—

Because of—Selected Seed, Good Heredity Characteristics, Scientific Methods of Planting and Propagation, Heavy Roots, Sturdy Tops and Rapid Growth—Musser Trees grow and thrive where others may fail to survive.

MUSSER TREES Grow Best!



Good Tree Stock Pays Dividends

Musser Forests takes pride in supplying vigorous, high-quality nursery stock. To keep abreast with increasing costs of production the most modern equipment is used. Experienced personnel are employed, many with over 20 years' service. . . . Our production has increased year after year to keep pace with the ever-increasing demand for Musser trees.

OUR TREMENDOUS VOLUME ENABLES US TO SAVE YOU MONEY

	Per 100	Per 1000		Per 100	Per 1000
• SPECIAL STRAIN SCOTCH PINE					
Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed. We have all other best strains Scotch Pine.					
2-yr., S., 4 to 8 ins.....	\$ 6.00	\$ 30.00			
3-yr., S., 8 to 16 ins.....	9.00	45.00			
4-yr., T., 8 to 12 ins.....	20.00	100.00			
• MUGHO PINE					
3-yr., S., 3 to 5 ins.....	7.00	35.00			
5-yr., T., 5 to 7 ins.....	20.00	.....		
• AUSTRIAN PINE					
2-yr., S., 3 to 6 ins.....	5.00	25.00			
3-yr., S., 8 to 12 ins.....	9.00	45.00			
• BLACK HILLS SPRUCE					
3-yr., S., 5 to 10 ins.....	7.00	35.00			
4-yr., S., 8 to 12 ins.....	10.00	50.00			
5-yr., T., 8 to 12 ins.....	24.00	120.00			
• NORWAY SPRUCE—Fast-growing					
2-yr., S., 5 to 10 ins.....	7.00	35.00			
3-yr., S., 10 to 14 ins.....	10.00	50.00			
3-yr., T., 6 to 12 ins.....	15.00	75.00			
5-yr., T., 12 to 18 ins.....	35.00	.....		
• WHITE SPRUCE					
3-yr., S., 8 to 12 ins.....	9.00	45.00			
4-yr., T., 10 to 16 ins.....	20.00	100.00			
• COLORADO BLUE SPRUCE					
3-yr., S., 4 to 8 ins.....	9.00	45.00			
4-yr., T., 4 to 8 ins.....	18.00	90.00			
• DOUGLAS FIR					
2-yr., S., 6 to 10 ins.....	7.00	35.00			
3-yr., S., 8 to 12 ins.....	11.00	55.00			
• AMERICAN ARBORVITAE					
3-yr., S., 8 to 12 ins.....	8.00	40.00			
• CANADIAN HEMLOCK					
2-yr., S., 3 to 6 ins.....	10.00	50.00			
3-yr., T., 6 to 8 ins.....	25.00	.....		
5-yr., T., 8 to 14 ins.....	35.00	.....		
• CONCOLOR FIR					
2-yr., S., 3 to 6 ins.....	9.00	45.00			
• JAPANESE YEW					
<i>Taxus cuspidata capitata—upright pyramidal</i>					
2-yr., S., 3 to 6 ins.....	\$20.00	\$150.00			
3-yr., S., 4 to 8 ins.....	30.00	200.00			
<i>Taxus cuspidata—spreading</i>					
1-yr., T., 5 to 6 ins.....	20.00	150.00			
2-yr., T., 6 to 8 ins.....	30.00	250.00			
3-yr., T., 8 to 12 ins.....	40.00	350.00			
<i>Taxus hicksii—upright</i>					
1-yr., T., 5 to 7 ins.....	25.00	175.00			
2-yr., T., 8 to 10 ins.....	40.00	300.00			
<i>Taxus brownii—upright</i>					
1-yr., T., 4 to 6 ins.....	25.00	175.00			
2-yr., T., 6 to 8 ins.....	40.00	.....		
<i>Taxus cuspidata capitata—spreading</i>					
From side cuttings.					
*3-yr., T., 8 to 12 ins.....	40.00	300.00			
*(Heavy Liner)					
<i>Taxus intermedia—spreading</i>					
1-yr., T., 4 to 6 ins.....	25.00	175.00			
*3-yr., T., 8 to 12 ins.....	40.00	.....		
*(Heavy Liner)					
<i>Taxus andersonii—spreading</i>					
1-yr., T., 5 to 7 ins.....	30.00	150.00			
• JUNIPER HETZI GLAUCA—Blue Pfeiffer					
1-yr., T., 5 to 7 ins.....	25.00	200.00			
• GLOBE ARBORVITAE					
<i>Woodwardi—dark green</i>					
1-yr., T., 4 to 6 ins.....	30.00	250.00			
<i>Moye's—green</i>					
1-yr., T., 4 to 6 ins.....	25.00	200.00			
• PYRAMIDAL ARBORVITAE—Compacta					
1-yr., T., 5 to 7 ins.....	25.00	200.00			
• JAPANESE HOLLY					
<i>Ilex retundifolia</i>					
1-yr., T., 5 to 6 ins.....	20.00	.....		
*4-yr., TT., 12-in. spread.,	\$1.75 each				
*(Sold in lots 5 or more)					
• AMERICAN HOLLY—Ilex opaca					
1-yr., T., 10 ins. and up....	50.00	400.00			
(Sexes separate)					
• WHITE DOGWOOD					
Seedlings, 13 to 15 ins.....					
	16.00	80.00			

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— All stock is carefully graded and packed —

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LIST — also famous CHRISTMAS TREE GROWERS' GUIDE.

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Box 16-D
INDIANA, PENNA.

Southern Shadows," for a spectacle emphasizing the new states of Alaska and Hawaii. Cash prizes up to nearly \$50,000 and many plaques, trophies and ribbons will be awarded.

CALIFORNIA COURSE

The California Association of Nurserymen and the department of ornamental horticulture, California State Polytechnic College, San Luis Obispo, will hold the 11th annual nurserymen's refresher course June 3 and 4. The course will be given at the home campus of Cal Poly.

MEET IN NEW MEXICO

The fifth joint convention of the Plains Nurserymen's Association and the New Mexico Association of Nurserymen will be held at Roswell, N. M., June 21 to 23. The headquarters for the meeting will be the Holiday Inn motel, according to Bob Kershner, vice-president of the New Mexico group.

MISSISSIPPI DATES

June 28 to 30 are the dates set for the Mississippi Florists' and Nurserymen's Association convention. The group will meet at the Eola hotel, Natchez, Miss., according to C. O. Box, secretary-treasurer of the association.

OHIO SUMMER MEETING

Members of Ohio Nurserymen's Association, Inc., will hold their summer meeting August 11 to 13 at Lake Erie College, Painesville. The Lake County Nurserymen's Association, host for the meeting, has planned an enjoyable program that will afford the nurserymen an opportunity to view the college's campus landscaping and will feature recreational activities such as a golf tournament, fishing, swimming and guided hikes. Accommodations will be available at the college dormitories or at nearby motels.

SOUTHERN HEADQUARTERS

The new Robert Myer hotel at Jacksonville, Fla., has been selected as the headquarters for the annual convention of the Southern Nurserymen's Association. The meeting will be held August 23 to 25.

JOINING the staff of the University of Missouri, Columbia, Mo., in June, is Professor Villard Summers, department of horticulture, Washington State College, Pullman, Wash.

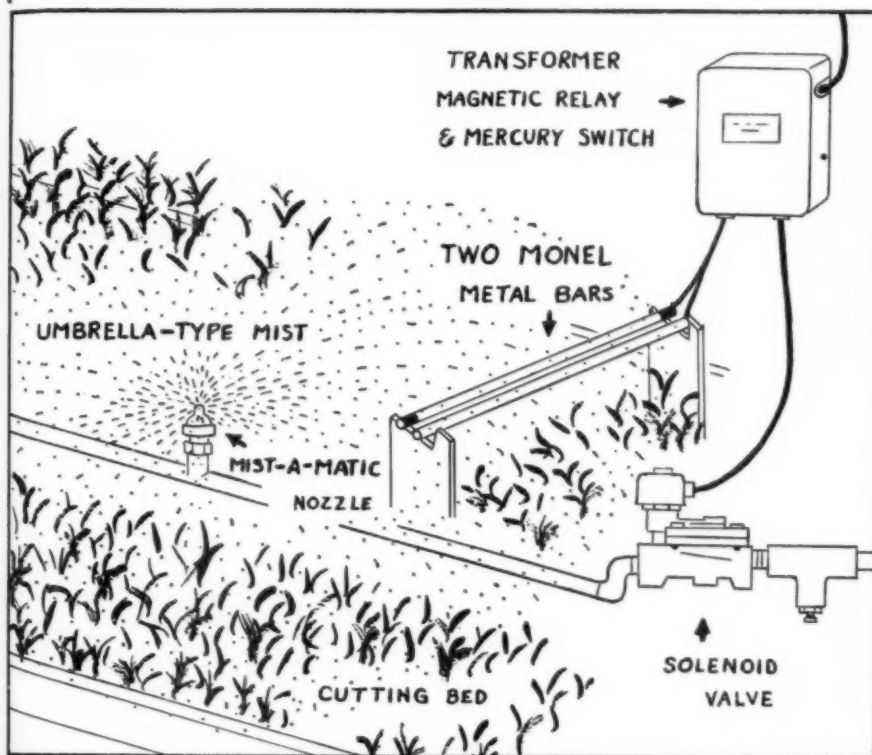
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A Practical Mist Propagation System
That's Priced Right.

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▶ **CLOCKS to Set
Electronic Tubes
Adjusting Knobs**



THE PROBLEM

To control misting cycle according to the weather conditions.

Too much water promotes disease and wastes money.

Too little water causes leaves to wilt and failure to root.

Control of misting cycle should depend on rate of evaporation, which can vary with any change in weather.

Any successful system should be simple and dependable without the necessity of adjusting timing devices.

The secret of success and simplicity of the system is shown in the sketch. Two parallel, spaced Monel metal bars are electrically connected to the magnetic relay transformer and mercury switch. These bars are placed over the cuttings and under the mist umbrella. When enough water accumulates between the bars to make an electrical contact, the mag-

netic relay switch closes the solenoid valve and turns off the mist. When the water evaporates, contact is broken, the relay opens the valve and misting starts. That's the whole story. The sensing units are large enough to accurately meet plant demands. This is the simplest, most positive answer to controlling the cycle of misting.

HANDY ORDER FORM (✓) Check Items Wanted

- ☐ Complete MIST-A-MATIC Control System with Solenoid Valve and Strainer.....\$72.00
☐ Complete MIST-A-MATIC Control System without Solenoid Valve and Strainer.....\$46.00
☐ MIST-A-MATIC Nozzle 1/4-in. Pipe Thread (one needed every 4 ft.).....\$2.95 ea.
 How Many? ☐ Male Thread ☐ Female Thread (✓) Check which thread.
☐ MIST-A-MATIC Slip-On Nozzle for 1/2-in. copper tubing — How Many?\$3.45 ea.

Payment Enclosed Totaling \$_____ Ship Via Best Way _____ Other _____

If payment does not accompany order and if you have not established credit with us, we will ship C.O.D.

Ship above order to (Your Name, please print).....

(Address, please print).....

E. C. GEIGER

P. O. BOX 270
NORTH WALES, PA.

TIME

with
NEW
HOOP TWINER



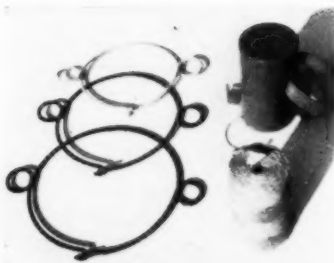
Hook hoop under foliage.



Pull twine from holder and tie.

SAVE

and



- Cuts foliage tying time in half.
- Saves time and twine when belly-tying ball.
- 1000 ft. of twine in a spool.
- 4 hoops—small, medium, large and extra large.
- Hoops plastic coated to protect foliage.
- Replacement blades for twine cutter.
- Twine cutter always where you can find it.
- Saves many feet of twine per tree.

Write for price list.

TWINE

with
NEW
TWINE HOLDER



Pull up handles, pulls in branches.



Cut twine and finish.

NURSERY EQUIPMENT CO. Maple Plain, Minn.

MAST NURSERY CONTINUES

The Mast Nursery, Davenport, Ia., will continue operations under a franchise lease to Claire A. McCrory. According to Mrs. William H. Mast, owner of the property and the firm name since the death of her husband last summer, the operation of the retail business is not in partnership, and she has no legal obligation for Mr. McCrory's commitments.

Mr. McCrory has been working with the nursery since he received his B.S. degree in forestry from Iowa State College, Ames, in 1950. He started his training at Iowa State

after two years in the signal corps. He and his wife, Gwen, have two sons, Keith and Kim.

Founded in 1858

The firm's new nursery shop at 3714 Brady street, Davenport, was started in the fall of 1957 and was completed in September, 1958, the year that marked the 100th anniversary of the Davenport Nursery. Mr. and Mrs. Mast purchased the nursery from Nichols & Lorton in 1913. Although the public has come to know the enterprise as the Mast Nursery during the past 45 years, the name Davenport Nursery is retained as the firm's registered trade mark.

SIEBENTHALER ADDITION

The grand opening of a new garden center built by the Siebenthaler Co., Dayton, O., will be held April 4 and 5. The establishment is located south of Dayton on Far Hills, at Whipp road. This is the firm's second garden center; the first was opened at Dayton in 1954.

STARTING a nursery business to be known as Cully's Nursery is Earl Cully, R. R. No. 5, Jacksonville, Ill.

HERRING NURSERIES, Hanover, Pa., will occupy space in a proposed Clearview Shopping Center.

EVERGREEN SEEDLINGS

CANALE'S FOREST NURSERY

Shelocta, Pa.

Let Our Quality Be Your Guide to Better Seedlings

Scotch Pine

Per 100 Per 1000

For the very best Christmas tree.

Best strains. Healthy, sturdy, straight-stemmed specimens with good color.

2-yr., 2 to 4 ins.	\$ 2.00	\$10.00
4 to 8 ins.	4.00	20.00
3-yr., 8 to 14 ins.	4.00	20.00
10 to 18 ins.	6.00	28.00

Special low prices on complete beds of 3-yr.
Scotch Pine.

French Scotch Pine

2-yr., 1 to 3 ins.	3.00	15.00
3 to 7 ins.	5.00	25.00

Spanish Scotch Pine,

short, dark green needles

2-yr., 1 to 3 ins.	3.00	15.00
3 to 7 ins.	5.00	25.00

Riga Scotch Pine

2-yr., 2 to 4 ins.	2.00	10.00
4 to 8 ins.	4.00	20.00
3-yr., 7 to 14 ins.	4.00	20.00

Scotch Pine, transplants

(2-2), 5 to 10 ins.	10.00	50.00
10 to 15 ins.	15.00	75.00
15 to 18 ins.	25.00	....

The above-listed Scotch Pine is top-quality stock. Our low price on this stock is because we have an excess over our usual needs. Take advantage of these low prices. We invite inspection and will match quality and price with seedlings from any source. Send us your order now and save at these low prices. Special rates on complete beds. We invite large buyers and dealers to inspect and price our stock. We know we can save you money on your planting needs now and in the future.

Austrian Pine

Christmas tree, ornamental and timber. Select seed from Austria.

2-yr., 1 to 3 ins.	2.50	12.50
3 to 6 ins.	4.00	20.00

Red Pine

Christmas tree, ornamental and timber. Certified seed.

2-yr., 2 to 4 ins.	3.00	15.00
3-yr., 5 to 10 ins.	5.00	25.00

White Pine

Timber, Christmas tree, ornamental and windbreak.

1 to 3 ins.	2.00	10.00
------------------	------	-------

Mugo Pine

Ornamental hedges, landscaping. True dwarf, low growing, compact.

3-yr., 1 to 3 ins.	7.00	35.00
4-yr., 3 to 6 ins., 25c each		
6 to 12 ins., 50c each.		

Ponderosa Pine

2-yr., 2 to 6 ins.	4.00	20.00
-------------------------	------	-------

Douglas Fir

The second best selling Christmas tree in the country, ornamental and timber. Start a planting this year. Very much in demand and brings large prices.

Per 100 Per 1000

Glaucous

3-yr., 1 to 3 ins.	\$ 3.00	\$15.00
3 to 8 ins.	7.00	35.00

Concolor Fir

Excellent ornamental and Christmas tree. Hardy. Holds needles best of any short-needed tree.

2-yr., 3 to 6 ins.	9.00	45.00
-------------------------	------	-------

White Spruce

Christmas tree, ornamental and timber.

2-yr., 2 to 4 ins.	2.50	12.50
(2-2), 4 to 8 ins.	10.00	50.00
8 to 12 ins.	15.00	75.00
12 to 15 ins.	25.00	....

Black Hills White Spruce

(Picea glauca densata)

2-yr., 2 to 4 ins.	4.00	20.00
(2-3), 3 to 5 ins.	10.00	50.00
5 to 10 ins.	15.00	75.00

We have had many requests in the past for small seedlings that a person may secure at a low price and then put these in transplant beds for a few years prior to field planting. For these people and for others who have the same idea we are now listing this small size at a very low figure. We do not recommend these for direct field planting except in areas where they have proved themselves. The size of the following seedlings is 1 to 2-in. No discount. Net price.

Scotch Pine	7.50
Blue Spruce	8.00

Colorado Blue Spruce

Very best for ornamental, Christmas tree and landscape. Seed is from select trees of good color—the very best money can buy.

3-yr., 2 to 4 ins.	2.50	12.50
3-yr., 4 to 8 ins.	7.00	35.00
4-yr., 6 to 12 ins.	12.00	60.00
(2-2), 3 to 6 ins.	10.00	50.00
6 to 10 ins.	17.00	85.00
8 to 12 ins.	30.00	....

Norway Spruce

Christmas tree, ornamental and timber. Fast-growing variety.

2-yr., 2 to 4 ins.	2.50	12.50
4 to 8 ins.	4.00	20.00
(2-2), 5 to 8 ins.	10.00	50.00
8 to 12 ins.	15.00	75.00
10 to 16 ins.	25.00

Black Spruce (Picea mariana)

2-yr., 2 to 4 ins.	2.50	12.50
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Arborvitae

Ornamental, landscape and hedges.

2-yr., 2 to 5 ins.	4.00	20.00
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PLEASE NOTE

May we advise booking your order early—NOW—and avoid disappointment. Some items are in limited supply. May we therefore advise you to list secondary choices.

TERMS

This list cancels all former quotations.

Prices subject to change without notice. Prices are F.O.B. Shelocta, Pa. We do not extend credit. Our low prices are for cash.

All orders to be accepted must be accompanied by a deposit of at least 25%, balance prior to shipping or order will be sent C.O.D. There is a 50c packing charge on seedling orders less than 1000. Orders over 1000 will be packed free. Send want list for special quotation on large orders.

We are equipped to grow many more trees than we do grow at present. We can contract to grow for you your future needs of evergreen stock. If interested, inquire. We also supply other nurseries and many mail-order outlets with our seedlings and transplants. If interested, inquire.

Order early. Earliest orders given preference for earliest shipping dates.

OUR AIM—The best, bar none, at the most reasonable price.

MILLIONS OF QUALITY SEEDLINGS

CANALE'S FOREST NURSERY **Shelocta, Pa.**
Phone: Elderton, Fleetwood 4-2461 **Night, Fleetwood, 4-3505**

QUALITY LINING-OUT STOCK

TREE AND SHRUB SEEDLINGS—LINERS

500 at the 1000 rate.

ARBORVITAE, CHINESE			
(Thuja orientalis)	Per 100	Per 1000	
3000 4 to 6 ins.	\$ 3.50	\$ 30.00	
2000 6 to 9 ins.	5.50	50.00	
5000 9 to 12 ins.	8.50	70.00	
1000 12 to 18 ins.	12.00	100.00	
GREEN ASH			
5000 6 to 12 ins.	1.40	12.00	
BUFFALO BERRY			
(Shepherdia argentea)			
2000 6 to 9 ins.	3.50	30.00	
1300 9 to 12 ins.	4.00	35.00	
1800 12 to 18 ins.	5.00	45.00	
2500 18 to 24 ins.	7.00		
CATALPA, WESTERN			
(Catalpa speciosa)			
2500 6 to 12 ins.	1.40	12.00	
2000 12 to 18 ins.	2.40	20.00	
1000 2 to 3 ft.	4.00	35.00	
ELM, AMERICAN			
4000 6 to 12 ins.	1.40	12.00	
2500 12 to 18 ins.	2.40	20.00	
2000 18 to 24 ins.	3.20		
1000 2 to 3 ft.	4.00	35.00	
ELM, CHINESE			
40,000 6 to 12 ins.	1.25	10.00	
20,000 12 to 18 ins.	2.25	18.00	
15,000 18 to 24 ins.	3.00	25.00	
2000 2 to 3 ft.	4.50	40.00	

GOLDEN-RAIN TREE

(Koeleruteria paniculata)		
2500 4 to 6 ins.	4.00	35.00
800 6 to 9 ins.	5.50	45.00
3000 9 to 12 ins.	9.00	80.00
6000 12 to 18 ins.	12.00	100.00
3000 18 to 24 ins.	20.00	150.00
300 2 to 3 ft.	25.00	225.00

HACKBERRY (Celtis occidentalis)

6500 6 to 12 ins.	1.80	15.00
7000 12 to 18 ins.	2.90	25.00
4000 18 to 24 ins.	4.50	40.00
2000 2 to 3 ft.	7.00	60.00

HONEY LOCUST, THORNLESS

26,000 6 to 12 ins.	1.50	12.00
8000 12 to 18 ins.	2.60	22.00
8000 1/4 to 1/2-in. cal.	4.50	35.00

HONEYSUCKLE, TATARIAN

(Lonicera tatarica)		
3000 6 to 9 ins.	3.20	26.00
3000 9 to 12 ins.	4.00	35.00
4000 12 to 18 ins.	5.00	45.00
1000 18 to 24 ins.	7.00	65.00

LILAC, COMMON

(Syringa vulgaris), 1-yr., S.		
3600 4 to 6 ins.	2.50	20.00
800 9 to 12 ins.	5.00	45.00
500 12 to 18 ins.	7.00	65.00
500 18 to 24 ins.	12.50	100.00
120 2 to 3 ft.	20.00	

LOCUST, BLACK

(Robinia pseudoacacia)		
6500 6 to 12 ins.	1.40	12.00
10,000 12 to 18 ins.	2.40	20.00
15,000 18 to 24 ins.	4.00	35.00
15,000 2 to 3 ft.	4.50	40.00
10,000 3 to 4 ft.	5.50	50.00
600 4 to 5 ft.	6.50	60.00

MAPLE, SILVER

(Acer saccharinum)		
2000 6 to 12 ins.	2.40	20.00
1000 12 to 18 ins.	3.20	28.00
800 18 to 24 ins.	4.50	40.00
700 2 to 3 ft.	6.50	60.00

MIMOSA (SILK TREE)

(Albizia julibrissin)		
1200 6 to 12 ins.	3.50	25.00
1000 12 to 18 ins.	4.00	35.00
1000 18 to 24 ins.	6.00	50.00
600 2 to 3 ft.	10.00	85.00
120 3 to 4 ft.	20.00	

MULBERRY, RUSSIAN

7800 6 to 12 ins.	1.40	12.00
10,000 12 to 18 ins.	2.40	20.00
8000 18 to 24 ins.	3.20	28.00
5000 2 to 3 ft.	4.00	35.00

OAK, BUR (Quercus macrocarpa)

200 4 to 6 ins.	4.00	
1000 6 to 9 ins.	5.50	
1000 9 to 12 ins.	7.00	65.00
1250 12 to 18 ins.	8.50	80.00
600 18 to 24 ins.	12.00	110.00
200 2 to 3 ft.	20.00	

OSAGE ORANGE

(Maclura pomifera)		
3000 6 to 12 ins.	1.40	12.00
800 12 to 18 ins.	2.40	20.00
300 18 to 24 ins.	3.20	28.00
2900 2 to 3 ft.	4.00	35.00

TREE AND SHRUB SEEDLINGS—LINERS (Cont'd.)

PAGODA TREE, JAPANESE

(Sophora japonica)	Per 100	Per 1000
600 9 to 12 ins.	\$10.00	\$ 85.00
700 12 to 18 ins.	14.00	125.00
200 18 to 24 ins.	20.00	

PRUNUS AMERICANA

(Native American Plum)		
1900 6 to 12 ins.	1.80	15.00
1900 12 to 18 ins.	2.50	25.00
2800 18 to 24 ins.	4.00	35.00
5000 2 to 3 ft.	4.50	40.00
2400 3 to 4 ft.	5.50	50.00

PRUNUS BESSEYI (Bush Cherry)

4000 6 to 12 ins.	3.50	30.00
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PRUNUS TOMENTOSA

(Nanking Cherry)		
900 6 to 12 ins.	4.50	40.00

RHUS CANADENSIS

(Fragrant Sumac or Quail Bush)		
5000 6 to 12 ins.	3.00	25.00
6500 12 to 18 ins.	4.00	35.00
4400 18 to 24 ins.	5.00	45.00
1000 2 to 3 ft.	6.50	60.00

RHUS COTINUS—See Smokebush.

ROSE, MULTIFLORA (Thorny)

6000 No. 1, 3/16 to 1/4-in. cal.	1.00	35.00
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6000 No. 2, 2/16 to 3/16-in. cal.	2.90	25.00
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RUSSIAN OLIVE

(Elaeagnus angustifolia)		
7500 6 to 12 ins.	2.40	20.00
1500 12 to 18 ins.	3.50	30.00
26,000 18 to 24 ins.	5.00	45.00
8000 2 to 3 ft.	7.50	65.00

SMOKEBUSH or SMOKE TREE

(Cotinus coggygria)		
5500 6 to 9 ins.	6.00	50.00
1300 9 to 12 ins.	7.00	60.00
7000 12 to 18 ins.	10.00	85.00

WALNUT, BLACK (Juglans nigra).

These are 2-yr. seedlings, root-pruned, very shallow in spring, 1958. Roots are branched and not too long and heavy.

5000 6 to 12 ins.	4.00	35.00
9000 12 to 18 ins.	4.50	40.00
1500 18 to 24 ins.	7.00	60.00

MISCELLANEOUS POTTED LINERS

EUONYMUS PATENS (K-54)

MANHATTAN

NEW VARIETY ORIGINATED AT KANSAS STATE COLLEGE. Leaves are medium size, but are darker green and much glossier than the ordinary varieties. In our plantings this variety, K-54, seemed more resistant to Chlorosis and to attack from grasshoppers than any other variety. We feel sure that the MANHATTAN EUONYMUS is destined to be an outstanding broad-leaved evergreen. Per 100 Per 1000
3100 2 1/4-in. pots... \$25.00 \$200.00

2 1/4-in. pots	Per 100	Per 1000
1000 EUONYMUS PATENS,		

SMALL-LEAVED, \$16.00 \$140.00

400 PYRACANTHA COCCINEA

LALANDI 20.00 180.00

500 ALTHAEA 18.00 160.00

200 ALTHAEA 18.00 160.00

300 ARDENS 18.00 160.00

1000 HONEYSUCKLE 18.00 160.00

1000 JUNEPRUS SABINA 22.00 200.00

VONEHRON 22.00 200.00

SHADE AND ORNAMENTAL TREES

30 trees at the 100 rate.

	Per 10	Per 100
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REDBUD (Cercis canadensis),

2-yr. transplants.

300 18 to 24 ins. br.	\$ 4.00	\$ 35.00
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600 2 to 3 ft. br.	5.50	50.00
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200 3 to 4 ft. br.	8.00	75.00
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100 4 to 5 ft. br.	12.50	110.00
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100 5 to 6 ft. br.	19.00	175.00
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100 6 to 7 ft. br.	25.00	225.00
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60 7 to 8 ft. br.	30.00	
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WISCONSIN WEeping WILLOW,

extra nice

100 5 to 6 ft.	10.00	90.00
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200 6 to 8 ft.	14.00	125.00
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90 8 to 9 ft.	16.50	150.00
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HACKBERRY (Celtis occidentalis)

80 4 to 5 ft.	9.00	85.00
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200 5 to 6 ft.	13.50	125.00
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400 6 to 8 ft.	22.50	200.00
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250 8 to 10 ft.	28.50	275.00
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COVER ILLUSTRATION

Aesculus Carnea

One of the showiest flowering trees is *Aesculus hippocastanum*, the common horse chestnut, which was much used as a shade tree in Europe and the United States. While magnificent in bloom, this species has faults responsible for its present disrepute as a desirable tree for good service in urban areas; highly objectionable are the sidewalk and pavement-staining litter of fallen flowers and cast fruit and its inability to withstand drought and thrive in conditions governing the growth of city trees. However, the undeniable beauty of the horse chestnut in bloom goes far to offset its bad habits, and well-nourished specimens, planted where shedding



Aesculus Carnea Blooms

fruit and flowers pose no problem, are well worth while.

The hybrid, *Aesculus hippocastanum* x *Aesculus pavia*, the red horse chestnut, is a tree about the same size, but has foliage of darker color and finer texture than *A. hippocastanum* and in like situations seems to hold up better under drought and other adverse conditions. In this hybrid, the flowers are pink to red and borne in panicles about two thirds as long as those of the horse chestnut, but the nuisance of fallen fruit is still present and limits the use of this good-looking tree, although it should certainly be used wherever practical and in good taste.

Greatly improved, in that the problem of annoying fruit has been eliminated, is the variety Brioti; in this form of the hybrid mentioned the flowers are bright scarlet and the plant is fruitless. With this varie-

SEND FOR OUR COMPLETE LIST

SHADE AND ORNAMENTAL TREES—SHRUBS—VINES
BROAD-LEAVED EVERGREENS, B&B—EVERGREENS, B&B
CHRYSANTHEMUMS—HEMEROCALLIS—LAWN GRASSES

KANSAS LANDSCAPE AND NURSERY CO.

Phone: TAYlor 7-0051

Salina, Kan.

NEW! Save Up To 50% with

Thriftipots

(TAR PAPER PLANTING POTS)

DELIVERED FLAT



5 Exclusive Money-Saving Advantages

✓ **LOWER INITIAL COST:** Compare these prices with any tar paper planting pots on the market.

Pot Size	Dimensions of Finished Pot	Price per 1000
1	4-in. diam., 4½ ins. high	\$18.50
2	4-in. diam., 5½ ins. high	22.50
3	5½-in. diam., 5½ ins. high	25.50
4	6½-in. diam., 6¼ ins. high	34.50
5	8-in. diam., 9½ ins. high	43.50

✓ **ASSEMBLE AS YOU NEED THEM:** Thriftipots are delivered flat. You assemble up to 3000 a day. Eliminate hot weather sticking and cost of separating as with nested type.

✓ **SAVE STORAGE SPACE:** 10,000 Thriftipots are stored in space occupied by 1000 nested pots! Thriftipots are shipped knocked-down . . . no unnecessary boxes to take up space and create fire hazards.

✓ **LOWER FREIGHT RATES:** Thriftipots cost 25 per cent less to ship than nested pots in boxes. Take same freight rate as building shingles.

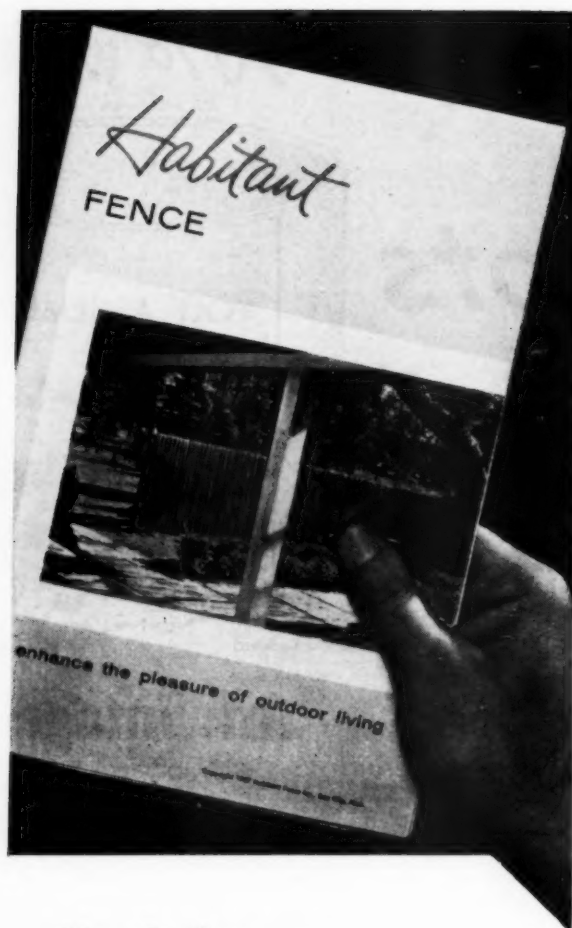
✓ **A BETTER POT:** Thriftipots have straight sides . . . put extra soil where it's needed at the bottom.

Thriftipots are sold exclusively by Old Orchard Gardens. Order NOW for the busy planting season ahead!

**Write today,
enclosing \$1,
for sample kit
of 10 Thriftipots,
two of each size.**

**OLD
ORCHARD
GARDENS**

724 E. Big Bend Blvd. Webster Groves 19, Mo.



Here's the way to be sure you have a highly profitable year!

Get all the facts, sir! This four-color brochure shows the complete line of Habitant Fence. It shows typical yard installations; exclusive construction features; and a host of reasons why Habitant is America's most respected and fastest selling wood fence.

We have your copy reserved for you.

HABITANT FENCE, INC., Bay City 20, Michigan

HABITANT FENCE, INC., Bay City 20, Michigan

GENTLEMEN:

I'm interested in learning more about the fast selling Habitant line. I understand this brochure will show me how to have a more profitable fence year — and that I do not have to stock or inventory Habitant in order to be a dealer.

NAME _____

ADDRESS _____

CITY _____ STATE _____

ty, one can use all the desirable features of the red horse chestnut, and it is now possible, by recommended spray treatment, to stay the tendency of aesculus foliage to desiccate and brown in late summer, weeks before most deciduous trees have lost their summer color.

J. G.

DYESS SUCCEEDS LAUDEN

The new president of Consolidated Nurseries, Inc., Tyler, Tex., rose firm, is W. D. Dyess, Tyler. He was elected by the corporation's board of directors March 3 to succeed the late C. J. (Jim) Lauden, former president, who was killed in an automobile accident February 13.

Mr. Dyess, 58, has been associated with Consolidated Nurseries, Inc., since its founding and was for 25 years Mr. Lauden's partner in two other Tyler enterprises, Southland Rose Nurseries and Ty-Tex Nurseries. Consolidated Nurseries, Inc., holds memberships in the American Association of Nurserymen, the Texas Association of Nurserymen and All-America Rose Selections, Inc. A resident of Tyler for the past 30 years, Mr. Dyess is married and has one son, the Rev. Odom Dyess.

OPEN NEW GARDEN WORLD

Opened March 20 was the third of the garden supermarkets in the Garden World chain on Long Island, N. Y. This newest Garden World, at 500 Franklin avenue, Franklin Square, L. I., is located on the site of the former Eberhard Nurseries and comprises several acres of hot-houses, nurseries and salesrooms. A special hothouse will feature rare and exotic plants from all over the world in all seasons of the year. The garden center is designed for complete self-service and will provide parking facilities for several hundred cars.

The March 20 opening coincided with the celebration of the eighth anniversary of the first Garden World at Flushing, L. I., and with the third anniversary of the second Garden World, at Syosset, L. I.

Harry Raben, president of Garden World, announces that the firm now intends to develop a series of garden supermarkets in Westchester county and in New Jersey.

COMPLETING recently a training course at Camp Lejeune, N. C., was Henry P. Leuthardt, Jr., United States Marine Corps, who had been associated formerly with his father in the Henry Leuthardt Nursery, Port Chester, N. Y.

Your Nursery can profit from Cole's National Advertising of the unique, fast-selling **SUNBURST**



Spectacular **SUNBURST** (Plant Patent No. 1313)

The sensational, new two-color tree with brilliant yellow foliage on branch tips. It appears to burst with bloom all summer long.

COLE HELPS YOU MAKE MONEY by selling your customers through sales-producing advertising and publicity in national home and gardening magazines. Nursery and garden store owners everywhere find these advertised brands easier and more profitable to sell. Be ready to meet the demand when your customers ask for them by name.

COLE HELPS YOU SELL with free newspaper mats and low-cost electros for your local tie-in advertising. Full color, four page folders and other selling helps are supplied at cost. Ask for our sales aid bulletin.

Stock these patented Cole specialties for 1959 profits



Cole's New **IMPERIAL**

(Plant Patent No. 1605)

The graceful, spreading, new Honeylocust that grows strong and straight *without staking*. A favorite of landscape men and tree experts.



Cole's new **SKYLINE**

(Plant Patent No. 1619)

Distinctive, stately variety with strong trunk and shapely crown. *Needs no staking*. Dark green foliage has heavy, leathery texture.



Cole's New **MAJESTIC**

(Plant Patent No. 1534)

A clean, graceful, symmetrically-branched tree. Produces a straight, sturdy trunk and compact crown *without staking or special trimming*.



Cole's New **TALLHEDGE**

(Plant Patent No. 1388)

A thornless, glossy Columnar Buckthorn that grows to 12 feet. Ideal for tall, narrow, dense hedges or screens. Bears colorful berries.



Cole assures you a dependable supply of 360 varieties of ornamental and shade trees, evergreens, deciduous shrubs and hard-to-find items. The high quality of Cole nursery stock is the result of three-quarters of a century of experience. Our modern, mechanized methods, ideal soil conditions and large-scale operations produce better plants at lower cost. We can fill your order promptly in large or small quantity. You can be sure of getting healthy, sturdy plants with more compact, uninjured root systems when you order from Cole. Send for our new catalog today.

**LARGE QUANTITIES
360 VARIETIES
WRITE FOR CATALOG**

THE COLE NURSERY CO.
PAINESVILLE, OHIO

**OHIO'S LARGEST
WHOLESALE NURSERY
ESTABLISHED 1881**

THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

TREE LEGUMES

With the present popularity of several new honey locust varieties, both the importance and the uniqueness of members of the pea family, or leguminosae, are made prominent. Among the unusual characteristics of members of this family are large compound leaves, with mostly tiny leaflets; flowers usually borne in panicles, and nodule-bearing roots. This last-named characteristic makes the tree a good one for the lawn, for rather than being a soil robber the tree may tend to improve it. It is also a tree under which an attractive lawn can be grown.

The old honey locusts have two objectionable qualities: They bear large unsightly pods that hang on through the fall and winter and then clutter the lawn, and they have the sharp-branched spikelike thorns, which make them entirely unsuitable for lawn planting. (There is a honey locust that has pods suitable for stock feed, as they have a high sugar content.) The new trees are podless and thornless and have an open, graceful habit; one variety has yellow foliage when new growth is formed. All honey locusts have one handicap; they cannot be grown with much satisfaction in the south wherever the mimosa is grown because they are extremely susceptible to the mimosa webworm.

Webworm Bad for Mimosa

The mimosa was one of my favorite small trees until the advent of the webworm; the pest has discouraged planting the tree, although some success can be found by spraying, and the pest is no longer so rampant. The tree has the typical legume leaf, but the flower is more like a pink (or red) powder puff than the typical pea flower. This tree was found in almost every southern yard, but it is now less frequently planted. It makes a fine combination with boxwood, for its light shade benefits the latter; however, the roots rob the soil and starve the boxwood. The mimosa is also subject to a wilt, but I have not had experience with it, and there are resistant varieties.

Another locust belonging to this family—the black locust—is not much of a shade tree but has other

qualities that make it both interesting and valuable. It is common along the shores of the many inlets of the Chesapeake bay, where it grows down almost to the water's edge and helps hold the bank. The tree has the ability to die back to the ground and renew itself from shoots. It is pretty when in bloom, being covered with creamy-white pea-shaped flowers that are rather overpowering in fragrance. The local tradition is that soft crabs make their first appearance when locusts bloom. The black locust is useful in soil conservation, and the wood is almost rot proof.

Much more beautiful is *Cercis canadensis*, which also grows along the shore and in the woodlands of Maryland. Some years the flowers are so profuse that the masses of color will equal those of the dogwood. It is not often planted as a specimen, but it can be so grown, making a beautiful tree about 25 to 30 feet high with a 12-inch trunk.

Its only disadvantage is its coarse root, making digging sometimes difficult. Also the tree will sometimes die back from blight.

Yellowwood

I have never had much luck with yellowwood, *Cladrastis lutea*, which has pretty white flowers and is so named because the wood is yellow under the bark. It is probably uncommon because of its unwillingness to thrive.

Some members of this genus are extremely beautiful, including the laburnum with its handsome long chains of golden-yellow flowers. This is one of the most beautiful of all flowering trees, more so than the crab apples or cherries, but it is not a vigorous grower. The foliage is usually sparse and anemic, and the tree lacks vigorous root growth. Because of its great beauty, nurserymen and gardeners will continue to struggle with it.

Sophora japonica or pagoda tree has been mentioned often in this column. I think it, like the honey locust, is one of the trees of the future. The foliage is clean; the white flowers borne in summer are showy, and the height of around 30 feet is about right for modern homes.

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1-yr., S., budding size	6.00	50.00
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4. Protect nursery soil with DOWFUME MC-2

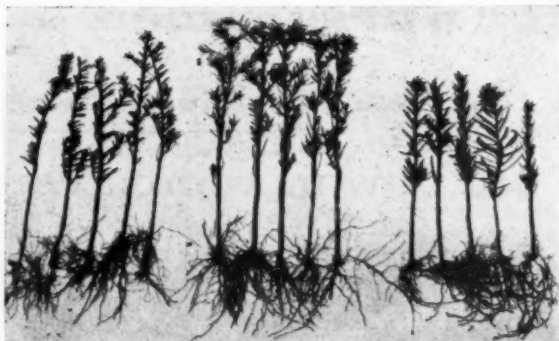
Get faster starting, faster growing and faster selling nursery stock by protecting every square foot of soil with Dowfume® MC-2 before planting. This powerful, positive soil fumigant controls nematodes and other soil-borne pests that stunt plants, trees and shrubs. Handy dispenser cans make Dowfume MC-2 easy to apply under a gas-proof cover.

One more tip—contact your Dow distributor real soon. He'll show you how these and other Dow chemicals can add profit to your nursery business.

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Varieties below	\$0.09	\$0.08
<i>Crenata</i> , selected upright, 6 ins.		
<i>Convexa</i> (bullata), 6 ins.		
<i>Glauci</i> , hardy, upright, 3 to 5 ins.		
<i>Helleri</i> , dwarf, spreading, 3 to 4 ins.		
<i>Latifolia</i> , big-leaved, tall, 6 ins.		
<i>Microphylla</i> , small-leaved, tall, 6 ins.		
<i>Rotundifolia</i> , round-leaved, globe, 6 ins.		

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Ready May-June and after.

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Varieties below, 5 to 7 ins.	\$0.12	\$0.11
<i>Chinensis pfitzeriana</i> (Spreading Pfitzer)		
<i>Chinensis pfitzeriana</i> Armstrong (Compact Pfitzer)		
<i>Chinensis pfitzeriana glauca</i> (Blue Pfitzer)		
<i>Glaucia Hetzi</i> (Blue Hetzi)		
<i>Horizontalis plumosa</i> (Andorra), low		

TAXUS (Yew)

Ready April-May and after.

	25 and up	250 and up
<i>Baccata repandens</i> (Spreading English) 6 ins.	\$0.15	\$0.14
<i>Cuspidata</i> (Spreading Japanese) 8 ins.	.11	.10
<i>Cuspidata capitata</i> Upright Japanese 6 ins.	.13	.12
10 ins. tips.	.17	.16
12 to 15 ins. tips.	.22	.20
<i>Cuspidata densiformis</i> , compact spreader, 6 ins.	.13	.12
<i>Cuspidata intermedia</i> , compact spreader, 6 ins.	.11	.10
8 ins.	.13	.12

TAXUS (Yew)—Continued

	25 and up	250 and up
<i>Cuspidata nana</i> (brevifolia), dwarf, spreading, 6 ins. (ready in June).	\$0.13	\$0.12
8 ins. (ready in June).	.15	.14
10 ins. (ready in June).	.17	.16
<i>Cuspidata Vermeulen</i> , dense, hardy, upright, 6 ins.	.11	.10
8 ins.	.13	.12
10 ins.	.15	.14
<i>Media</i> (Anglo-Jap), globe, 6 to 8 ins.	.12	.11
<i>Media hatfieldi</i> , dense, hardy column, 6 ins.	.11	.10
8 ins.	.13	.12
10 ins.	.15	.14
<i>Media hicksi</i> (Hick's), dark column, 8 ins.	.13	.12
<i>Media kelseyi</i> , berrybush, dark globe, 6 ins.	.11	.10
<i>Media verticalis</i> , tall, slender, hardy, 7 varieties to choose from: <i>Flushing</i> , <i>Grandifolia</i> , <i>Pilaris</i> , <i>Pyramidalis</i> , <i>Robusta</i> , <i>Stricta</i> , <i>Viridis</i> , 6 ins.	.15	.14

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coffee tree, is interesting but not important. Its pods are a nuisance, and it is late in coming into leaf. The foliage is sparse, like that of the black walnut, which it resembles in some ways.

In actuality, the shrubs and the trees of the legume family are quite interesting.

SPRAY MEN ORGANIZING

Following in the footsteps of nurserymen, garden supply dealers, fruit and vegetable growers, florists and others engaged in the horticultural trades, the men who are primarily in the business of spraying lawns and fruit trees are forming their own trade groups in southeast Florida.

The first organization, called Horticultural Spraymen's Association of Florida, was organized at Miami a little over a year ago with 18 charter members, and in December another association, Professional Horticultural Spraymen's Association of Broward County, was organized with 35 charter members.

The purpose of both groups, according to their charters, is to "promote, improve and advance the horticultural spraying business; to foster and maintain the good will of the industry with the general public; to inform and advise the members of the public as to benefit and advantages of horticultural spraying, and to protect the public against false, misleading or improper advertising, methods of operation or conduct by members of the industry."

The latter clauses of the charter regarding false, misleading and improper activities, was one of the major reasons for the decision by reputable men to organize. The entire industry was suffering from unfavorable publicity caused by criticism of a few fly-by-night or unethical operators who flagrantly violated contracts and failed to live up to advertising claims.

When the first group organized, two of their requirements were that members have a telephone listing showing a permanent address and that any complaints regarding work done by any member were to be thoroughly investigated by the board of directors.

Group-sponsored paid newspaper advertising and favorable editorial news coverage soon made the public aware of the organization, and during their first year many of their initial objectives were accomplished. The association adopted a distinctive insignia that members included in their advertising, on their letterheads and on their equipment.

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THE AUGUSTINE ASCENDING ELM

"A NURSERYMAN'S TREE"

with GREAT

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A YEAR-ROUND TREE

From
this
baby tree

to
this



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NURSERYMEN— LANDSCAPE MEN— READ THIS!

ELM TREE TROUBLES?

By ELDRED GREEN

Consultant, Midwest and
Chicago Horticulture

Trees do not die—though they are killed. Trees, like many plants, are immortal. Each year they create a new set of tissues and organs. Each year new buds, branches, wood, bark and roots are formed. These create, each year, a new set for the succeeding year and so on and on.

Why then do trees perish—there are many reasons, but the main ones are malnutrition, drowning, accidents and disease. It must be remembered that a tree is immobile and must stay in a fixed position; each year it grows and increases in height and spread.

For instance, the following charts the growth of the many American elms planted across the United States under good growing conditions. And, most city tree plantings show how they have become overgrown by the following:

When planted out, a 3-yr. elm tree is an 8 to 10-ft. sapling.

When it has become a 12-yr.-old, it is 36 times larger; 24-yr.-old, 144 times larger; 40-yr.-old, 1150 times larger; 80-yr.-old, 2300 times larger.

Starvation often comes from overplanting, or having become overgrown. Planting in holes or pockets of good soil; in time a tree may exhaust the soil in the pocket; then it is left to seek minerals, being a much larger tree.

Drowning often takes the life of many trees, especially young thriving elms, which require plenty of oxygen during peak growing time of the summer. The trouble is most common on stiff soils. A pocket of good soil in clay may be literally a well. This is particularly true if excessive wetness comes when the young roots are growing and most sensitive to lack of air, as in late spring and summer.

Disease is accepted by the many as the main cause of death of trees. Yet, disease requires, mainly, a plant out of condition; the cause—fungus, mold, virus, insects, etc. All these must work together to cause a disease to take hold. Break the chain and there will be no disease.

The way to break the chain of disease is to keep the plants healthy with proper food, moisture, cultivation—all of which builds resistance—spray to keep off the pests that carry disease. The ABC's of trees in trouble evidence that disease is not the great reaper.

The information here assembled is for the helping of elm trees in trouble. Other trees in trouble are also affected from being overgrown and overpopulated, or from starvation, water whether too much or too little, and pests and plagues too are predicated mainly by the condition of each tree and its rooting area.

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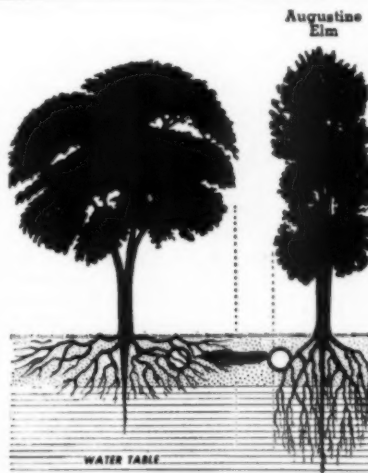
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(2-0), 2-yr., S., 2 to 3 ins.	\$ 7.00	\$18.00
(2-0), 2-yr., S., 3 to 5 ins.	8.00	22.00
(1-2), 3-yr., T., 5 to 10 ins.	10.00	30.00
(2-2), 4-yr., T., 6 to 12 ins.	12.00	60.00
(2-2), 4-yr., T., 8 to 14 ins.	16.00	90.00
Scotch Pine (<i>Pinus sylvestris</i>)		
(2-0), 2-yr., S., 2 to 4 ins.	4.00	12.50
(2-0), 2-yr., S., 3 to 6 ins.	5.00	14.00
(2-0), 2-yr., S., 4 to 8 ins.	6.00	20.00
(3-0), 3-yr., S., 8 to 16 ins.	8.00	25.00
(2-0), 4-yr., T., 6 to 10 ins.	10.00	50.00
(2-2), 4-yr., T., 8 to 14 ins.	15.00	60.00
Austrian Pine (<i>Pinus nigra</i>)		
(2-0), 2-yr., S., 2 to 4 ins.	4.00	20.00
(2-0), 2-yr., S., 3 to 6 ins.	6.00	25.00
(2-2), 4-yr., T., 6 to 10 ins.	15.00	70.00
White Spruce (<i>Picea alba</i>), excellent blue-gray color		
(2-0), 2-yr., S., 3 to 6 ins.	5.00	25.00
(3-0), 3-yr., S., 4 to 8 ins.	6.00	30.00
(3-0), 3-yr., S., 5 to 10 ins.	10.00	45.00
Concolor Fir (<i>Abies concolor</i>)		
(2-0), 2-yr., S., 2 to 3 ins.	8.00	....
(2-0), 3-yr., S., 3 to 6 ins.	10.00	....
(3-0), 3-yr., S., 4 to 8 ins.	15.00
Douglas Fir		
(2-0), 2-yr., S., 2 to 3 ins.	6.00	25.00
(2-0), 3-yr., S., 3 to 6 ins.	8.00	35.00

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2-yr., 4 to 8 ins.	\$20.00	2-yr., 4 to 8 ins.	\$20.00
2-yr., 8 to 12 ins.	22.50	3-yr., 8 to 12 ins.	30.00
3-yr., 12 to 16 ins.	25.00	Colorado Blue Spruce	
Austrian Pine		2-yr., 4 to 8 ins.	20.00
2-yr., 4 to 7 ins.	20.00	3-yr., 6 to 10 ins.	30.00
Red Pine		Norway Spruce	
3-yr., 5 to 10 ins.	25.00	2-yr., 5 to 10 ins.	20.00
Hemlock		Douglas Fir (glauca)	
(2-2), 6 to 12 ins.	60.00	2-yr., 4 to 8 ins.	25.00

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Large, graded, 2-yr., straight-stemmed.	Per 1000
SCOTCH PINE, North German, 6 to 10 ins.	\$22.00
NORWAY SPRUCE, 5 to 10 ins.	22.00

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	Each	Each
	Per 100	Per 1000
18 to 24 ins., heavily branched	35c	30c

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<i>Cornus florida</i> welchii	\$10.00
<i>Fagus sylvatica</i> purpurea pendula	10.00
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<i>Magnolia sieboldi</i> parviflora	8.50
<i>Pinus strobus</i> pendula	8.00
<i>Pinus sylvestris</i> watereri glauca	8.00
<i>Pinus Tanyosho</i>	8.00
<i>Quercus robur</i> fastigiata	9.00

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OBITUARY

Alex Horvath, Sr.

Alex Horvath, Sr., owner of the A. Horvath Evergreen & Rose Nursery, Perry, O., died March 7 after a long illness. He was 63 years old.

In the nursery business for 30 years and known as an evergreen specialist, Mr. Horvath was a member of the Lake County Nurserymen's Association. He is survived by the widow; two sons, Louis and Alex, Jr., both of Perry; a daughter, Mrs. Charles Hartman, Cleveland, O.; three grandchildren, and two brothers.

Mrs. Beatrix Farrand

Mrs. Beatrix Farrand, landscape designer and consultant, died February 27 at Bar Harbor, Me. She was 86 years old.

Mrs. Farrand was a fellow and a charter member of the American Society of Landscape Architects, and in 1940 she had been named an honorary member of the American Institute of Architects. An honorary trustee of the Santa Barbara Botanic Garden, Santa Barbara, Calif., she was also founder and former president of Reef Point Gardens, Bar Harbor. She served as supervising landscape gardener at Princeton University, Princeton, N. J., and as consulting landscape gardener to arboreta and other colleges.

Alfred C. Beaujean

Alfred C. Beaujean, A. C. Beaujean & Son, a nursery and landscape firm of Bronxville, N. Y., died in a hospital there February 16, at the age of 80.

Born at Lee, Mass., Mr. Beaujean was associated with several nurseries and greenhouses in the New York city area before establishing his own firm in 1939. Survivors include the widow; a daughter; a son, Alfred A., and two grandchildren.

Jesse F. Ingram

Jesse F. Ingram, owner of Ingram's Bird Road Nursery, Miami, Fla., died there February 16. He was 56 years old. Mr. Ingram is survived by a son, Jesse, Jr., Miami; two daughters, Judy, Miami, and Martha, Orlando, and four sisters.

Mrs. Claire E. Price

Mrs. Claire E. Price, secretary-treasurer of D. J. Greer Nursery, Inc., Miami, Fla., died there February 19 of a malignant growth at the age of 49. She had been secretary-treasurer of South Florida Nurs-

FIELD-GROWN LINING-OUT STOCK

Transplanted stock grown in open field beds.

	Each 100 rate	Each 1000 rate		Each 100 rate	Each 1000 rate		Each 100 rate	Each 1000 rate
Azalea mollis (Chinese Azalea)			Ilex rotundifolia (Round-			Pieris japonica		
Flame shades, mixed			leaved Japanese Holly)			(Japanese Andromeda)		
6 to 8 ins., 2-yr., T.....	\$0.22	\$0.18	6 to 8 ins., 1-yr., T.....	\$0.25	\$0.22	6 to 8 ins., 2-yr., T.....	\$0.35	\$0.32
8 to 10 ins., 2-yr., T.....	.35	.30	8 to 10 ins., 2-yr., T.....	.38	.35	8 to 10 ins., 3-yr., T.....	.45	.40
8 to 12 ins., 3-yr., T.....	.45	.40	10 to 12 ins., 2-yr., T.....	.48	.45	Pinus mugo (Dwarf Mugho Pine)		
Azalea Ghent pontica , pastel shades			12 to 15 ins., 2-yr., T.....	.70	.55	3 to 5 ins., 3-yr., T.....	.20	.18
Very hardy.			12 to 18 ins., 3-yr., T.....	1.00	.90	5 to 8 ins., 4-yr., T.....	.25	.20
2 to 4 ins., 2-yr., T.....	.30	.28	Juniperus Andorra (Purple			Pinus nigra (Austrian Pine)		
4 to 6 ins., 3-yr., T.....	.35	.32	Andorra Juniper)			5 to 10 ins., 4-yr., T.....	.15	.10
6 to 10 ins., 3-yr., T.....	.45	.40	6 to 8 ins., 1-yr., T.....	.30	.25	8 to 12 ins., 5-yr., T.....	.22	.18
Azalea mucronulatum , lavender			8 to 10 ins., 2-yr., T.....	.45	.40	10 to 15 ins., 5-yr., T.....	.28	.22
4 to 8 ins., 2-yr., T.....	.35	.32	10 to 12 ins., 3-yr., T.....	.50	.45	Pyraecantha coccinea lalandi		
8 to 10 ins., 3-yr., T.....	.45	.40	12 to 15 ins., 4-yr., T.....	.60	.55	(Firethorn)		
10 to 15 ins., 3-yr., T.....	.55	.50	Juniperus canadensis aurea (Golden			6 to 8 ins., 2-yr., T.....	.32	.30
Buxus sempervirens welleri			Canadian Juniper), spreader			8 to 12 ins., 2-yr., T.....	.40	.38
(Weller's Hardy Boxwood)			4 to 6 ins., 1-yr., T.....	.25	.20	Rhododendron Hybrid , various colors		
4 to 6 ins., 2-yr., T.....	.28	.25	6 to 8 ins., 2-yr., T.....	.35	.30	Seedling-grown from red plants,		
6 to 8 ins., 3-yr., T.....	.35	.32	8 to 10 ins., 3-yr., T.....	.45	.40	very hardy.		
8 to 10 ins., 3-yr., T.....	.45	.40	Juniperus glauca hetzi			3 to 5 ins., 3-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.55	.50	(Hetzi Juniper)			5 to 8 ins., 4-yr., T.....	.55	.50
Chamaecyparis filifera aurea			8 to 12 ins., 2-yr., T.....	.35	.30	8 to 10 ins., 4-yr., T.....	.65	.60
(Golden Thread Cypress)			10 to 12 ins., 3-yr., T.....	.40	.35	10 to 15 ins., 4-yr., T.....	1.00	.90
4 to 6 ins., 2-yr., T.....	.45	.40	12 to 15 ins., 3-yr., T.....	.55	.48	Rhododendron catawbiense		
Chamaecyparis lawsoniana altum			12 to 18 ins., 3-yr., T.....	.65	.60	(Catawba Rhododendron)		
Columnar, blue.			Juniperus hibernica fastigiata			2 to 4 ins., 3-yr., T.....	.35	.30
8 to 10 ins., 2-yr., T.....	.30	.28	(Compact Irish Juniper)			4 to 8 ins., 3-yr., T.....	.45	.40
10 to 12 ins., 3-yr., T.....	.45	.40	8 to 10 ins., 2-yr., T.....	.35	.30	Rhododendron maxima		
12 to 18 ins., 3-yr., T.....	.55	.50	10 to 12 ins., 3-yr., T.....	.38	.33	2 to 4 ins., 3-yr., T.....	.35	.30
Chamaecyparis plumosa aurea			12 to 18 ins., 3-yr., T.....	.45	.40	4 to 8 ins., 3-yr., T.....	.45	.40
(Golden Plumed Cypress)			Juniperus horizontalis glauca			Rhododendron maximum		
6 to 8 ins., 2-yr., T.....	.35	.30	Blue-green spreader. Very low.			2 to 4 ins., 3-yr., T.....	.35	.30
8 to 10 ins., 3-yr., T.....	.40	.35	6 to 8 ins., 2-yr., T.....	.35	.32	4 to 8 ins., 3-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.50	.45	8 to 10 ins., 2-yr., T.....	.40	.35	8 to 12 ins., 3-yr., T.....	.50	.45
Chamaecyparis squarrosa ,			10 to 15 ins., 3-yr., T.....	.50	.45	Sophora japonica		
Mossy green foliage.			Juniperus pfitzeriana			(Japanese Pagoda Tree)		
8 to 12 ins., 3-yr., T.....	.35	.30	8 to 10 ins., 2-yr., T.....	.45	.40	4 to 8 ins., 3-yr., T.....	.25	.20
Cotoneaster horizontalis (Rock Spray)			10 to 15 ins., 3-yr., T.....	.55	.50	10 to 15 ins., 3-yr., T.....	.35	.30
4 to 6 ins., 3-yr., T.....	.25	.22	Juniperus pfitzeriana compacta			Taxus capitata (Upright Japanese		
6 to 10 ins., 3-yr., T.....	.38	.32	Nelson variety blue spreader.			Yew), seed-grown		
Euonymus fortunei coloratus			6 to 8 ins., 3-yr., T.....	.35	.30	4 to 6 ins., 3-yr., T.....	.35	.30
Procumbent broad-leaved ever-			8 to 10 ins., 4-yr., T.....	.45	.40	6 to 8 ins., 4-yr., T.....	.40	.35
green creeper			10 to 12 ins., 3-yr., T.....	.55	.50	8 to 10 ins., 4-yr., T.....	.50	.48
8 to 12 ins., 2-yr., T.....	.25	.22	12 to 15 ins., 4-yr., T.....	.65	.55	10 to 15 ins., 4-yr., T.....	.75	.65
12 to 18 ins., 3-yr., T.....	.35	.32	Juniperus pfitzeriana aurea			Taxus cuspidata (Spreading Yew)		
Euonymus radicans vegetus			(Golden Pfitzer Juniper)			6 to 8 ins., 2-yr., T.....	.38	.35
(Evergreen Winter Creeper)			8 to 10 ins., 2-yr., T.....	.40	.35	8 to 10 ins., 2-yr., T.....	.45	.40
Orange berries.			10 to 12 ins., 3-yr., T.....	.50	.45	10 to 15 ins., 3-yr., T.....	.55	.50
8 to 10 ins., 2-yr., T.....	.35	.30	12 to 15 ins., 3-yr., T.....	.60	.55	Thuja occidentalis douglasii aurea		
10 to 15 ins., 3-yr., T.....	.45	.40	Juniperus squamata meyeri			(Geo. Peabody Arborvitae)		
12 to 18 ins., 4-yr., T.....	.50	.45	(Meyer's Juniper), blue-green.			Golden pyramid.		
Euonymus alatus (Winged Euonymus)			8 to 12 ins., 3-yr., T.....	.50	.45	6 to 8 ins., 2-yr., T.....	.35	.32
4 to 6 ins., 3-yr., T.....	.18	.15	Juniperus stricta (Spiny Greek			8 to 10 ins., 3-yr., T.....	.45	.40
6 to 10 ins., 3-yr., T.....	.25	.20	Juniper)			10 to 12 ins., 3-yr., T.....	.55	.50
10 to 15 ins., 3-yr., T.....	.38	.32	6 to 8 ins., 2-yr., T.....	.40	.35	Thuja occidentalis elegantissima lutea		
Ilex crenata (Japanese Holly),			8 to 12 ins., 3-yr., T.....	.48	.40	Foliage golden tipped over dark green.		
pyramidal			Koeleruteria paniculata			6 to 8 ins., 2-yr., T.....	.35	.30
6 to 8 ins., 1-yr., T.....	.25	.20	(Golden-Rain Tree)			8 to 10 ins., 3-yr., T.....	.40	.35
8 to 10 ins., 2-yr., T.....	.35	.32	5 to 12 ins., 3-yr., field, T..	.22	.18	10 to 12 ins., 3-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.48	.45	12 to 24 ins., 4-yr., field, T..	.35	.32	12 to 15 ins., 3-yr., T.....	.55	.50
12 to 18 ins., 3-yr., T.....	.65	.60	Leucothoe catesbaei (Drooping			15 to 24 ins., 4-yr., T.....	.65	.60
Ilex crenata convexa (bullata)			Leucothoe)			Thuja occidentalis globosa		
(Box-leaved Holly)			8 to 10 ins., 3-yr., T.....	.35	.30	(Woodward Globe Arborvitae)		
6 to 8 ins., 1-yr., T.....	.25	.22	10 to 12 ins., 3-yr., T.....	.45	.40	6 to 8 ins., 1-yr., T.....	.28	.25
8 to 10 ins., 2-yr., T.....	.38	.35	12 to 15 ins., 3-yr., T.....	.55	.50	8 to 10 ins., 2-yr., T.....	.35	.32
10 to 12 ins., 3-yr., T.....	.48	.45	Liquidambar styraciflua (Sweet Gum)			10 to 12 ins., 2-yr., T.....	.45	.42
12 to 15 ins., 2-yr., T.....	.65	.55	2-yr., S., bed run.....	.10	.08	12 to 15 ins., 3-yr., T.....	.55	.50
12 to 18 ins., 5-yr., field-row			10 to 15 ins., 2-yr., S.....	.12	.10	15 to 18 ins., 4-yr., T.....	.65	.55
spaced	1.00	.90	12 to 18 ins., 3-yr., T.....	.20	.18	18 to 24 ins., 4-yr., T.....	.70	.65
Ilex crenata hetzi			18 to 30 ins., 3-yr., T.....	.25	.22	Tsuga canadensis (Hemlock)		
An improved form of convexa.			Picea pungens			6 to 8 ins., 3-yr., T.....	.35	.30
6 to 8 ins., 2-yr., T.....	.30	.28	(Colorado Blue Spruce)			8 to 10 ins., 4-yr., T.....	.40	.35
8 to 10 ins., 3-yr., T.....	.40	.38	4 to 6 ins., 4-yr., T.....	.20	.18	10 to 15 ins., 4-yr., T.....	.55	.50
10 to 15 ins., 3-yr., T.....	.55	.50	6 to 8 ins., 4-yr., T.....	.35	.32	Viburnum opulus nanum		
Ilex crenata helleri			Pieris japonica			(Dwarf Bush Cranberry)		
(Heller's Dwarf Holly)			6 to 8 ins., 2-yr., T.....	.30	.25	2-yr., field, T.....	.25	.22
3 to 6 ins., 2-yr., T.....	.35	.30	8 to 10 ins., 3-yr., T.....	.40	.35	4 to 8 ins., 3-yr., T.....	.35	.32
4 to 8 ins., 3-yr., T.....	.45	.40	10 to 12 ins., 3-yr., T.....	.50	.45	6 to 10 ins., 4-yr., T.....	.45	.42

Lining-out Stock. 25 at the 100 Rate. 300 at the 1000 Rate.

TERMS: Free packing for cash with order, otherwise 1/2 deposit with order and balance C.O.D. Packing at cost. All shipments by railway express.

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	Per 100	Per 1000
Scotch Pine		
2-yr., S., 2 to 4 ins.	2.00	\$10.00
2-yr., S., 4 to 8 ins.	4.00	20.00
3-yr., S., 8 to 14 ins.	4.00	20.00
3-yr., S., 10 to 18 ins.	6.00	28.00

Special low prices on complete beds of 3-yr. Scotch Pine.

French Scotch Pine		
2-yr., S., 1 to 3 ins.	3.00	15.00
2-yr., S., 3 to 7 ins.	5.00	25.00

Spanish Scotch Pine, slow-growing variety with short needles		
2-yr., S., 1 to 3 ins.	3.00	15.00
2-yr., S., 3 to 7 ins.	5.00	25.00

Riga Scotch Pine		
2-yr., S., 2 to 4 ins.	2.00	10.00
2-yr., S., 4 to 8 ins.	4.00	20.00
3-yr., S., 7 to 14 ins.	4.00	20.00

Scotch Pine		
(2-2), 5 to 10 ins., T. ..	10.00	50.00
(2-2), 10 to 15 ins., T. ..	15.00	75.00
(2-2), 15 to 18 ins., T. ..	25.00	....

Austrian Pine		
2-yr., S., 1 to 3 ins.	2.50	12.50
2-yr., S., 3 to 6 ins.	4.00	20.00

Red Pine		
2-yr., S., 2 to 4 ins.	3.00	15.00
3-yr., S., 5 to 10 ins.	5.00	25.00

White Pine		
2-yr., S., 1 to 3 ins.	2.00	10.00

Ponderosa Pine		
2-yr., S., 2 to 6 ins.	4.00	20.00

Mugho Pine, true dwarf spread		
3-yr., S., 1 to 3 ins., spread	7.00	35.00

American Arborvitae		
2-yr., S., 2 to 5 ins.	4.00	20.00

Colorado Blue Spruce		
3-yr., S., 2 to 4 ins.	2.50	12.50
3-yr., S., 4 to 8 ins.	7.00	35.00
4-yr., S., 6 to 12 ins.	12.00	60.00
(2-2), 3 to 6 ins., T.	10.00	50.00
(2-2), 8 to 12 ins., T.	30.00	....

Norway Spruce		
2-yr., S., 2 to 4 ins.	2.50	12.50
2-yr., S., 4 to 8 ins.	4.00	20.00
(2-2), 5 to 8 ins., T.	10.00	50.00
(2-2), 10 to 16 ins., T.	25.00	....

Black Spruce (Picea mariana)		
2-yr., S., 2 to 4 ins.	2.50	12.50

White Spruce		
2-yr., S., 2 to 4 ins.	2.50	12.50
(2-2), 4 to 8 ins., T.	10.00	50.00
(2-2), 8 to 12 ins., T.	15.00	75.00
(2-2), 12 to 25 ins., T.	25.00	....

Black Hills White Spruce (Picea glauca densata)		
2-yr., S., 2 to 4 ins.	4.00	20.00
(3-2), 3 to 5 ins., T.	10.00	50.00
(3-2), 5 to 10 ins., T.	15.00	75.00

Douglas Fir, glauca		
3-yr., S., 1 to 3 ins.	3.00	15.00
3-yr., S., 3 to 8 ins.	7.00	35.00

Concolor Fir		
2-yr., S., 3 to 6 ins.	9.00	45.00

Cash or 25% deposit. Balance C.O.D. 500 at 1000 rate.

5% discount on quantities of 25,000. Write for discount on large orders.

ROOTSPRED TREE PLANTER

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Scotch Pine, 1 to 2 ins., \$7.50 per 1000.
Blue Spruce, 1 to 2 ins., \$8.00 per 1000.

No Discount

eries, Inc., Miami, for three years before going to the Greer firm two years ago. The survivors include four sisters, two brothers and a cousin.

T. R. Holcomb

T. R. Holcomb, Colorado Springs, Colo., retired nurseryman, died in a hospital there February 17 at the age of 69. He is survived by the widow, Mrs. Mattie Holcomb; three sons; a daughter, and seven grandchildren.

IOWA-ILLINOIS WORKSHOP ON LANDSCAPING

[Concluded from page 15]

on the local station's televised news program that night, and stories and pictures appeared in the local newspapers the following day.

The reaction toward this venture has been extremely good. Comments from those in attendance were excellent. Many persons asked if the association planned to make the workshop an annual affair, and at the last membership meeting it was decided to do so.

Experience Aids Future Plans

A few mistakes made in conducting this first landscape workshop will be rectified next year. The workshop committee decided, after the close of the series, that it had tried to cover too much material too fast. Next year, only two or three subjects will be offered, in order to permit more thorough discussions. For instance, Walter Brakeman, landscape architect, Home Nursery, La Fayette, Ill., covering "Landscape Design" in 45 minutes, did an excellent job, but could have done better in three such periods.

Also, funds for the workshop can be spent more intelligently next year. The association feels that, with the experience gained from this first project, it can obtain more returns for less than the approximate \$300 cost of this year's course. The group is contemplating making a nominal charge to help defray expenses rather than offering the program free, as was done this year. With only eight participating nurseries at the outset of this school, the cost outweighed the dues somewhat.

Association members, however, feel that this has been a worthwhile undertaking and would recommend it to any local organization as a public service project. Further information and a few remaining copies of the workshop program may be obtained by mailing inquiries, accompanied by a stamped, self-addressed envelope, to W. I. Huddleston, 813 34th avenue, Moline, Ill.

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Honey Locust, Thornless, 2-yr., S., 14 to 16 ins., \$60.00 per 500.

Free packing.

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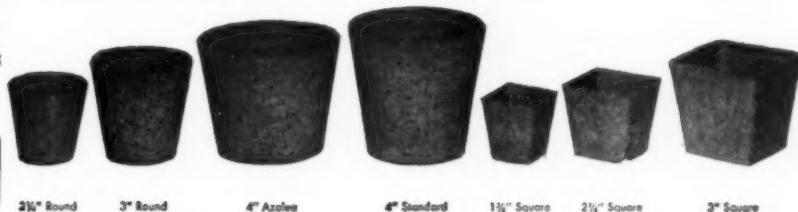
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3 1/2" Round 3" Round 4" Azalea 4" Standard 1 1/2" Square 2 1/4" Square 3" Square

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Inside top Dimension of pot	Number of pots per Carton	Approx. Wt. of Carton	Price per 1000
S-1428A 2 1/4-in. Diameter Round	2,000 to 18,000 20,000 to 74,000	2000	\$ 7.25
S-1428B 3-in. Diameter Round	1,000 to 9,000 10,000 to 49,000	1000	6.75 6.25
S-1428C 4-in. Diameter Round	500 to 2,000 2,500 to 10,000	500	13.25 12.25
S-1428E 4-in. Diameter Round	500 to 2,000 2,500 to 9,500	500	11.00 9.25
Azalea	10,000 and over		24.75

VAL-PEAT POTS—SQUARE SIZES

Inside top Dimension of pot	Number of pots per Carton	Approx. Wt. of Carton	Price per 1000
S-1428 1 1/2-in. Diameter Square	2,500 to 17,500 20,000 to 70,000 72,500 and over	2500	\$ 7.00 6.50 6.00
S-1428F 2 1/4-in. Diameter Square	2,000 to 18,000 20,000 to 74,000 76,000 and over	2000	11.00 10.25 9.50
S-1428D 3-in. Diameter Square	1,000 to 9,000 10,000 to 49,000 50,000 and over	1000	18.25 17.00 15.25

NEW

LITE-WEIGHT No. 10 TWO SQUARE SIZES — 2 1/4 and 3-inch

For some growing purposes, these lighter weight pots are preferred.

Inside top Dimension of pot	Quantity	Number Pots per Carton	Approx. Wt. of Carton	Price per 1000
2 1/4-in. Square No. 10	2,500 to 17,000 20,000 to 72,500 75,000 and over	2500	30 lbs.	\$7.50 7.00 6.50
Inside top Dimension of pot	Quantity	Number Pots per Carton	Approx. Wt. of Carton	Price per 1000
3-in. Square No. 10	1,000 to 9,000 10,000 to 49,000 50,000 and over	1200	30 lbs.	\$14.50 13.25 12.25

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Pot Label
WOOD POT LABELS. We carry the best quality of wooden labels made. They are smooth, strong and neat, 3/8 in. wide. When ordering, specify pot labels or garden stakes, painted or plain.
In lots of 10,000 less 5%.

	Packed to Carton	Plain Per 1000	Painted Per 1000
4-in.	1000	\$3.10	\$3.80
5-in.	1000	3.30	4.10
6-in.	1000	3.60	4.50
8-in.	500	5.30	6.60
10-in.	500	6.30	7.70
12-in.	500	7.50	9.10

	Packed to Carton	Plain Per 1000	Painted Per 1000
8-in.—7/8 in. wide	250	\$ 7.70	\$ 9.00
10-in.—7/8 in. wide	250	8.70	10.10
12-in.—1 1/8 in. wide	100	15.50	18.00

WOOD TREE LABELS COPPER WIRED. 3 1/2 ins. by 5/8 in. Per 1000, \$-1542 plain, \$3.60; 5000 to 10,000, per 1000, \$3.55; \$-1544 painted, per 1000, \$4.50; 5000 to 10,000, per 1000, \$4.45.

WEATHERPROOF PENCILS. Black lead. Ideal for marking pot labels, garden stakes or other outdoor work.

Cat. No.	Packed	Wt.	Dealers' Cost	Retail
S-1520	12	1/2 lb.	\$ 1.00	\$0.15
	36	1 1/2 lbs.	2.85	.15
	144	2 lbs.	10.80	.15

Z.I.P. RABBIT AND DEER REPELLENT. Z.I.P. acts as a TASTE repellent. It stops deer from eating and tends to break up browsing areas. Z.I.P. STICKS. It contains nothing to harm domesticated animals, yet protects valuable plantings from deer and rabbit destruction. In growing season use 1 qt. to 10 gallons of water. In dormant season use 1 qt. to 5 gals of water. 6 oz. and 16 oz. are aerosol bombs.



Cat. No.	Size	Packed	Wt.	Dealers' Cost	Retail
S278	6 oz.	12	7	\$ 8.00	\$ 1.00
	16 oz.	12	17	18.00	2.25
	1 qt.	12	27	28.80	3.50
	1 gal.	4	36	34.40	11.40

RINGWOOD RABBIT REPELLENT. So effective just one application completely protects deciduous trees and shrubs during the dangerous dormant period — CONTINUES protecting them through spring and summer. Rain and snow CAN'T wash it off. Developed and proved BEST by U. S. Fish and Wild Life Service. One application gives all-winter-and-spring protection to TREES AND SHRUBS! 5 oz. and 12 oz. are aerosol bombs.

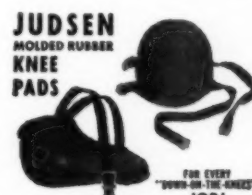


Cat. No.	Size	Packed	Wt.	Dealers' Cost	Retail
S273	5 oz.	12	7	\$10.00	\$ 1.25
	12 oz.	12	15	20.00	2.50
	1 pt.	12	14	23.60	2.95
	1 qt.	12	26	36.00	4.50
	1 gal.	1	17	10.00	15.00



WATERPROOF TREE WRAP PAPER. Used by tree experts, nurserymen and homeowners to help young trees to mature. Also protects your saplings and shrubs from early frosts, scorching sun, rabbits and insects. Rolls are 4 ins. wide, 150 ft. long. 10 rolls to a master roll.

Cat. No.	Size	Packed	Wt.	Dealers' Cost	Retail
S1543	4 ins.	1	3 lbs.	\$ 0.65	\$1.00
	4 ins.	10	24 lbs.	6.00	
	4 ins.	30	72 lbs.	16.50	



JUDSEN MOLDED RUBBER KNEE PADS. Well-made knee pads. Neatly molded with sponge rubber insert. Complete with straps. In two sizes, men's (black), or ladies' (pink).

Cat. No.	Size	Packed	Wt.	Dealers' Cost	Retail
S1117	Men's	6	10 lbs.	\$ 9.60	\$2.25
		12	20 lbs.	19.00	2.25
S1117A	Ladies'	6	6 lbs.	6.40	1.60
		12	12 lbs.	12.80	1.60

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PRICES AND PROFITS

Comments on Business Management in the Nursery

By John J. Pinney

FIGURING MARKUP

"How should I mark up my nursery stock?" This question is often asked by those who are new in the nursery business. It is a question that should also be asked more often by those who have been a long time in the nursery business. It is the markup that determines whether or not one makes a profit.

There is no easy answer to that question. Certainly there is no magic formula that can be applied in all cases. It might be well first to define markup, which is expressed in percentage and is determined in this manner: Subtract the cost from the selling price and then divide the difference by the selling price. The resulting percentage is called markup.

Markup should be based on the selling price rather than on cost. There is a great deal of confusion and misunderstanding on this subject. A few examples may help clear it up. Suppose a tree cost \$3 and is sold for \$6. The difference in price is \$3. If this figure is divided by the selling price, \$6, the result is 50 per cent. Now suppose the selling price is raised to \$8. Dividing the difference, \$5, by the selling price, \$8, gives 62½ per cent. When figured in this way, a markup of 100 per cent is impossible.

Misleading Method

Why should markup be figured on selling price rather than cost? Actually, there are some retailers who use cost as a basis for determining markup. For example, if they buy a plant for \$1 and sell it for \$2, they say they have marked it up 100 per cent, because the selling price is 100 per cent more than cost. If the retail price is \$3, the markup is 200 per cent, etc. Usually it is those who figure in this manner who get into trouble because of a markup that is too low. A markup of 200 per cent sounds big, but when figured on selling price it becomes only 66⅔ per cent.

Practically all of the leading mercantile organizations use the retail price as the basis for determining markup. This applies to the big mail-order houses, department stores and syndicates. It also applies to nearly

all of the smaller successful retail stores.

There are some aggressive wholesale supply houses serving nurseries and garden centers that tell their customers their products have a markup of 33⅓ to 66⅔ per cent. These percentages are figured on cost. Of course they are far more attractive than when figured on the selling price, in which case the markup would be only 25 to 40 per cent.

Overhead Items

Now to get back to the original question: How much should nursery stock be marked up? To the original cost must be added all the items that are covered by the nebulous term "overhead." Because so many items are involved in overhead, some of them might easily be overlooked. I shall list a number of them here; the reader can probably think of others:

Transportation (freight, express,

parcel post); postage; salaries of executives; wages of other employees; utilities (electricity, water, telephone, telegraph); rent on buildings or interest on investment in them; interest on investment in office equipment; office supplies; insurance (many kinds); taxes (also many kinds), and advertising.

All Expenses Must Be Met

Admittedly, it is impossible to allocate all of these expenses equitably to the various items of merchandise on sale. Yet they are a part of the cost of doing business and must be met from profits. When one makes a careful analysis of his overhead expenses, he is less likely to price his merchandise too low. There are nursery businesses in which the overhead costs are actually greater than the cost of the merchandise offered for sale by the firms.

Nursery stock, being perishable, must carry a higher markup than nonperishable merchandise in order to compensate for the greater risks. Live plants require more care than inanimate products; some of the plants may die before they are sold; replacements may have to be made to keep customers satisfied, and there may be some carry-over involving added expense for care between seasons. These are expenses and risks

STRATFORD EVERGREEN TREE NURSERY

Stratford, N. Y.

Spring, 1959

	Per 100	Per 1000
Scotch Pine Boonville		
Green year around, straight-stemmed.		
(2-0), 3 to 6 ins.	\$5.00	\$22.50
(2-0), 5 to 9 ins.	6.00	25.00
(3-0), 6 to 12 ins.	8.00	35.00
(2-1), 5 to 10 ins., T.	9.00	40.00
Scotch Pine Spanish Blue		
(2-0), 3 to 6 ins.	4.00	18.50
Scotch Pine French Blue		
(2-0), 3 to 6 ins.	4.00	18.50
Austrian Pine		
(2-0), 3 to 6 ins.	5.00	22.00
(3-0), 4 to 8 ins.	6.00	30.00
(2-1), 4 to 8 ins., T.	7.00	35.00
Collected Canadian Hemlock		
5 to 9 ins.	7.00	35.00
9 to 12 ins.	8.00	60.00
Collected Adirondack Double Balsam		
4 to 8 ins.	7.00	35.00

DISCOUNT: 5% 10,000 to 25,000, 7½% 26,000 to 99,000, 10% 100,000 or more, 10% deposit, 90% F.O.B. or established bank credit. 25% deposit, 75% C.O.D. 50 at 100 rate, 500 at 1000 rate.

PENNSYLVANIA EVERGREEN SEEDLINGS

We have the best for Christmas trees. Pines, Spruces, Firs. Send for listing today.

SCHROTH'S NURSERY

Indiana, Pa.

TRACTOR CARRY-ALL

The handiest piece of equipment a nurseryman can own. Can be attached or detached in 3 minutes to any tractor with 3-point hitch. Lifts up to 2000 lbs. from ground level to 3½ ft. for easy loading. Carries plants from field to loading area. Saves damage to trucks in soft ground.

Al Nordheden

LANDSCAPER
WEST END GREENHOUSES
1208 N. GOODWIN - PHONE 7-4341
URBANA, ILLINOIS
March 2, 1959

Last Coast Flower Farms
Pink Hill,
North Carolina

c/o Mr. H. A. Edwards

Dear Mr. Edwards:

Last spring we purchased one of your carry-all platforms for our Oliver 55 Tractor. At the time we purchased this piece of equipment we did not realize how extensively we would use it. We are presently using it for transportation of plants to and from the field. During spray season we mount 4, 55 gallon barrels of spray solution on it as we use a power take-off sprayer for spraying our fields. During the planting season we use it to transport our tractor implements to and from our lawn construction jobs.

Even though we have only had this piece of equipment a short time, it has more than paid for itself. Frankly, I don't see how we ever got along without it.

Yours very truly,

Al Nordheden
Al Nordheden

AM/ct

READ WHAT OWNERS SAY ABOUT THE TRACTOR CARRY-ALL...

"Enclosed please find check to cover one Tractor Carry-All."

"This is a fine piece of equipment. It paid for itself the first two days we used it. We think every nursery should own one."

JEFFERSON FLORIST & NURSERY
Greenville, N. C.

"We want you to know how useful we find the Carry-All for our three-point hook-up tractor. It is really one of the best pieces of equipment that a nursery can own."

"The Carry-All is nice for moving plants in containers and for going to the field for a few B&B plants. In moving and loading large trees, it is excellent. When plants are to be moved the men start looking for the Carry-All."

STEED'S NURSERY
Candor, N. C.

"We are very much pleased with the Tractor Carry-All."

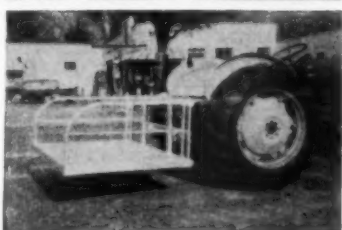
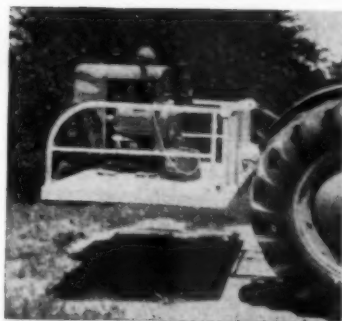
BOYD NURSERY CO.
McMinnville, Tenn.

FLORIDA STATE UNIVERSITY
Tallahassee, Fla.



Write Today
for Special
Trial Offer
and
Discounts to
Nurserymen

**East Coast
FLOWER FARMS**
PINK HILL, N. C.



SHRUBS! SHRUBS! SHRUBS!

Western New York's best growing season in years has produced the finest-quality shrubs available on the market.

If your order is placed in time we may be able to include it in a pool car to your area and save transportation costs.

BARBERRY	Each	PHILADELPHUS	Each
Thunbergi (Green-Leaved)		Aureus	
15 to 18 ins.	22c	12 to 15 ins.	30c
Thunbergi atropurpurea (Red-Leaved)		9 to 12 ins.	25c
18 to 24 ins.	27c	Virginalis	
CARYOPTERIS		2 to 3 ft.	32c
Blue Mist		18 to 24 ins.	27c
No. 1	25c	12 to 18 ins.	25c
COTINUS COGGYGRIA		POTENTILLA	
(Smoke Tree)		Gold Drop	
2 to 3 ft.	50c	18 to 24 ins.	37½c
DEUTZIA		15 to 18 ins.	30c
Gracilis		Kathryn Dykes	
24 to 30 ins.	45c	18 to 24 ins.	35c
18 to 24 ins.	37c		
15 to 18 ins.	32c	SPIRAEA	
Gracilis rosea		Japanica coccinea	
2 to 3 ft.	40c	12 to 15 ins.	30c
18 to 24 ins.	35c	Vanhouttei	
Lemoinei		2 to 3 ft.	27c
18 to 24 ins.	32c	18 to 24 ins.	22c
EUONYMUS		WEIGELA	
Alatus compactus		Eva Rathke	
15 to 18 ins.	65c	2 to 3 ft.	32c
12 to 15 ins.	50c	Rosea	
Patens		3 to 4 ft.	32c
18 to 24 ins.	50c	Vaniceki	
HYDRANGEA		2 to 3 ft.	32c
Arborescens grandiflora		18 to 24 ins.	27½c
2 to 3 ft.	37½c		
18 to 24 ins.	30c		
Nikko			
No. 1	40c		

Send for complete list of varieties and sizes and our list of berry plants and grapevines.

CONGDON'S WHOLESALE NURSERY

North Collins, N. Y.

PACHYSANDRA

Terminalis (Japanese Spurge). The ideal permanent evergreen ground cover plant for shady and semi-shaded areas in all climates. Does well in sunny areas, too. Absolutely winter hardy in the most northern climates.

Strong, well-rooted, 1-yr. plants; propagated in soil and peat frames with light shade . . . \$6.00 \$50.00 \$47.50
Available for prompt shipment throughout the year. Shipments anywhere including Canada. GOOD PACKING FREE. A good source of supply.

PEEKSKILL NURSERY

Phone: Lakeland 8-5595
SHRUB OAK, N. Y.

TAXUS

In varieties, certified for western shipment.

BULK'S NURSERIES

610 W. Montauk Hwy.

Babylon, N. Y.

MULTIFLORA ROSE

(*Rosa multiflora japonica*)

Hardy, northern-grown plants. Our highest quality is well known.

2 to 3 mm. in caliper, 8 to 12 ins. in height, \$12.50 per 1000.

3 to 8 mm. in caliper, 12 to 24 ins. in height, \$22.50 per 1000.

Less than 1000 add 30%.

Packing at cost.

BROOKVILLE NURSERIES

Box 53, Northern Blvd.
Glen Head, N. Y.

ROSES

Central Pennsylvania Grown
2-yr.-old, field-grown plants.
Hybrid Teas—Floribundas—Climbers

EVERGREENS

Landscape Material
Twice transplanted, regularly sheared.
Young, salable evergreens for cash-and-carry trade of garden shops, roadside markets and nurseries.

Write for wholesale price list.

SHADE'S NURSERY

624 Colonial Club Dr.
Harrisburg, Pa.

Phone: Harrisburg, KI 5-5417

5 miles east of Harrisburg on U. S. Rt. 22, turn north at Inn 22, nursery 1 mile north of U. S. Rt. 22.

that must be considered in pricing nursery stock.

The turnover in the nursery business is slow compared to many other types of business. The food store operator can turn his stock many times during the year. Consequently, he can operate at a profit on a much smaller markup. Nursery stock must carry a much higher markup to earn a reasonable amount on the investment.

Sixty Per Cent Markup Common

There are many successful retail nurserymen who follow a more or less standard practice in pricing their nursery stock. Rarely is one found who marks up as little as 50 per cent, which is not enough to make a fair profit. A more common practice is to mark up 60 per cent, and there are many who mark up 66⅔ per cent. There are nurserymen emphasizing high-quality merchandise and superior service who mark up some of their plants as much as 75 per cent.

It is not practical to follow a given rule in the pricing of all nursery stock. In general, the lower the price, the greater the markup that is possible. Conversely, the higher the price, the lower the markup. For example, a shrub that costs 50 cents might easily retail for \$1.50 or \$2, a markup of 66⅔ to 75 per cent. But a tree costing \$50 may not retail for more than \$100 or \$125, a markup of 50 per cent to 60 per cent.

The retailer who buys all of his nursery stock has an advantage in pricing his merchandise, because he knows his original costs. The retailer who grows part or all of his stock has no such advantage, because he has no way of knowing the production costs of each plant. Cost accounting in the nursery business has not advanced to that point.

In general, it can safely be said that nursery stock is priced too low. Part of the difficulty is caused by a misunderstanding of markup and part by failure to give due consideration to overhead expenses. Also, not enough importance is attached to the slow turnover inherent in the business and the unusual risks involved because of the perishable nature of nursery stock. All of these factors must be considered in pricing.

SELLING QUALITY STOCK

The sale of the highest-quality nursery stock can result in the greatest profit. It is difficult to define quality, but nearly all experienced nurserymen are aware of its meaning. In nursery stock it is not syn-

LOOK — WE INVITE YOU TO COMPARE COLORADO SPRUCE

HEADQUARTERS
FOR —

(Picea Pungens)

BEAUTIFUL GREEN COLORADOS

LOOKING FOR AN OPPORTUNITY? — HERE IS ONE

One of the greatest opportunities ever offered the nursery industry: Once transplanted trees at prices comparable to bulk-grown reforestation seedlings. We never expect to again give such an offer. Why—this time? Because we just have more than we can grow on and are giving the nursery trade this chance to capitalize on it.

5-Year-Old Trees
Bushy—good tops—good roots. Grown right and packed right by this old reliable firm.

Trees that grow!

LOOK!

12 to 24 inches, once transplanted, packed in bunches of 10.

No Packing
Charge!

5,000 to 10,000.....	15c each
10,000 to 50,000.....	13c each
50,000 to 100,000.....	11c each
100,000 or over.....	10c each
Sample bunch of 10 trees.....	\$3.00

Prices F.O.B.
Portland, Ore.

WONDERFUL FOR:

CHRISTMAS TREES

HIGHWAY PLANTING

WOOD LOTS

MAIL ORDERS

WINDBREAKS

CONTAINERS

HEDGES

REFORESTATION

ESTATES

GROWING ON

There's no catch to this. We mean just what we say: Colorado Spruce 5 years old, once transplanted, from open beds, 12 to 24 inches from root collar to tip, so fine and bushy we can only tie 10 in a bunch.

This offer good to April 15 only. Cash of course. 25% will reserve. Reserve orders must be out by April 1. Get a carload or a trailerload.

And if you are looking for:

PINUS ARISTATA (Bristlecone Pine)

We can supply 1 to 3-inch trees only, once transplanted, \$14.00 per 100; \$31.50 per 250. Limit 250 per customer.

REFER TO OUR DESCRIPTIVE WHOLESALE CATALOG FOR A WHOLE HOST OF OTHER FINE EVERGREEN MATERIALS. Trade Only!

WHOLESALE
ONLY!



SHERWOOD NURSERY CO.

Evergreens - PROPAGATORS AND GROWERS
WHOLESALE

Wholesale list available—trade only.
(It contains complete descriptions.)

CORBETT, ORE.

MAXWELL, BOWDEN & RICE, INC.

Growers of Fine Nursery Stock

WHOLESALE ONLY

Roses — Shrubs — Fruit Trees — Ornamentals — Vines — Hedge

Geneva, N. Y. — Phone 8131

69 years' experience growing**QUALITY STOCK****Over 30 years' experience****EXPERT PACKAGING***Insure Customer Satisfaction*

- Roots packed in PEAT MOSS for sure growth.
- Eye-appealing—moisture-retaining—GOLD FOIL and SILVER FOIL CONTAINERS.
- Large, full-color plates and complete planting instructions on all containers.
- Ad mats—sales aids on request.
- All stock generously graded.
- Finest delivery service anywhere.

Write for Our Spring, 1959, Catalog

BERBERIS JULIANAE

Northern-grown, stocky plants; generously graded with good ball of earth. Prices are each per 100 (25 or more). Write for special quotation on large quantities.

15 to 18 ins.....	\$2.00
18 to 24 ins.....	2.75
24 to 30 ins.....	3.50
30 to 36 ins.....	4.00
36 to 42 ins.....	5.00

ANGELICA NURSERIES

R. D. No. 1

Mohnton, Pa.

SPECIAL SALE
NORWAY MAPLES

All Transplanted and Well Grown

2 to 2½-in. cal., B. R., \$6.20

2½ to 3-in. cal., B. R., \$9.40

6 to 8 ft., B. R., \$2.40

Order Now! Write or Phone!

NORLEY NURSERIES

Phone: Alpine 6-8485

Gardiner, N. Y.

Concord Grape Roots
 Red Raspberry
 Flowering Shrubs
 Boston Ivy
 Currants

IVAN R. CONGDON NURSERY
 North Collins, N. Y.

DECIDUOUS AND EVERGREEN TREES AND SHRUBS

Outstanding assortment.

Write for Wholesale Price List.

LOVETT'S NURSERY, INC.
 LITTLE SILVER, N. J.

SHADE TREES—ORNAMENTALS

Gleditsia triacanthos, Carpinus caroliniana, Cercis canadensis, Cornus florida, Phellodendron amurense, Platanus acerifolia, Liquidambar styraciflua, Acer platanoides, Acer rubrum, Fraxinus americana, Acer ginnala, Ostrya virginiana, Koeleria paniculata, Pyrus calleryana, Pinus strobus, Pinus nigra, Salix babylonica, Pieris japonica and many more.

HIDDEN VALLEY NURSERY

Phone: Millington 7-1158

Gillette, N. J.

FINER LINERS

Finest Varieties—Finest Quality
 Hardy, Northern New Jersey Grown
 Catalog on request.

JOHN VERMEULEN & SON
 Neshanic Station, N. J.

onymous with size; a small shrub can be of as high quality as a large one.

A plant can be said to be of high quality when it possesses in high degree those characteristics which make it a desirable plant for its purpose. For example, an ornamental shrub is of high quality when it is in good, viable condition, free from diseases and injurious insects; has sufficient root development for the size of its top, and possesses enough branches or canes for its size to be characteristic of the variety.

Why is it more profitable to sell the best quality rather than inferior merchandise? To some nurserymen, this question may seem purely academic. There is no doubt in their minds that only high-quality merchandise should be offered. Yet it is a fact that many persons, when starting in the nursery business, believe they must meet all competition and that the way to do it is to buy cheap, inferior stock.

Just as much space is required to store and display inferior plants as is needed for the best. Therefore, the investment in buildings and equipment, expressed as a percentage of the value of each plant, is higher for the poor stock than it is for the best.

Costs More To Sell

The cost of advertising, salaries and commissions paid to sales personnel, hours spent in making sales and overhead costs are equal for poor merchandise and for the best. In fact, they can increase for inferior stock, because it is necessary to sell more units to equal the value of a smaller number of the quality plants.

A nurseryman cannot hope to build a sound business with cheap stock. Most of the customers attracted by such merchandise are bargain hunters who rarely become regular customers. Because the mortality with poor plants is high, the nurseryman who sells them has more complaints, more replacements to make and more dissatisfied customers.

On the other hand, the nurseryman who makes it his policy to offer the best is catering to the most desirable trade. There are plenty of buyers who demand quality and are willing to pay for it. The nursery stock they buy can be expected to give satisfaction. The statement that a satisfied customer is the best advertisement is a cliché, but it is nonetheless true. The more one has of such buyers, the less he has to invest in the conventional media of advertising.

The higher the plane on which one



Our London Plane—July 30, 1958

PRINCETON = TREES

THE FINEST OBTAINABLE

Unit prices covering 50 or more of a variety.

	6 to 8 ft.	8 to 10 ft.	1 1/4 to 1 1/2-in. cal.	1 1/2 to 1 3/4-in. cal.	1 3/4 to 2-in. cal.	2 to 2 1/2-in. cal.
Silver Maple	\$1.50	\$2.25	\$3.00	\$4.50	\$ 6.00	.....
Pyramidal Silver Maple .....	.....	3.00	3.75	5.50	.....	.....
Red or Scarlet Maple .....	.....	.....	5.00	6.75	9.00	.....
Norway Maple .....	.....	3.25	4.25	5.50	6.50	\$ 9.00
Columnar Norway Maple	3.25	4.50	6.00	8.00	10.50	13.50
Schwedler Maple .....	.....	.....	5.00	6.50	8.00	.....
Summershade Maple (Plant Patent No. 1748)	3.25	4.50	6.50	8.15	.....	.....
American Ash	2.00	2.50	3.50	6.00	.....	.....
Green Ash	2.00	2.50	3.50	6.00	.....	.....
London Plane Tree .....	.....	3.50	5.00	7.00	9.00	.....
American Plane Tree	2.25	3.00	4.25	5.75	6.50	.....
American Linden	2.25	3.00	4.00	5.00	.....	.....
Pin Oak .....	.....	4.00	5.50	7.00	9.50	12.00
Red Oak	3.30	4.40	6.00	.....	.....	.....
Shademaster Locust (Plant Patent No. 1515) .....	.....	5.50	7.50	9.00	.....	.....
Moraine Locust® (Plant Patent No. 836)	5.00	7.00	.....	.....	.....	.....
Cole's New Sunburst Locust (Plant Patent No. 1313)	4.10	6.75	8.50	.....	.....	.....
Prunus subhirtella pendula, on own stem	4.50	5.50	.....	.....	.....	.....

Also many other varieties including small growing and flowering trees. Plus a very complete ornamental line.

PRINCETON NURSERIES

Princeton, N. J.

Phones: Princeton, WA 4-1776 — WA 4-1777

GRAFTED LINERS

"Remember the Quality When You Compare the Price"

<i>Acer palmatum atropur-</i>	10	100	<i>Juniperus chinensis</i>	10	100
<i>pureum</i>	\$7.50	\$65.00	<i>columnaris glauca</i>	\$6.50	\$55.00
<i>Acer palmatum dissectum</i>			<i>Juniperus chinensis</i>		
<i>atropurpureum</i>	7.50	65.00	<i>columnaris viridis</i>	6.50	55.00
<i>Acer rubrum columnare</i>	7.50	65.00	<i>Juniperus chinensis keteleeri</i>	6.50	55.00
<i>Acer saccharum</i>			<i>Juniperus scopulorum</i>		
<i>monumentale</i>	7.50	65.00	<i>Blue Haven</i>	6.50	55.00
<i>Cedrus atlantica glauca</i>	7.50	65.00	<i>Juniperus virginiana burkii</i>	6.50	55.00
<i>Chamaecyparis obtusa</i>			<i>Juniperus virginiana</i>		
<i>compacta</i>	6.00	50.00	<i>elegantissima</i>	6.50	55.00
<i>Chamaecyparis obtusa</i>			<i>Juniperus virginiana globosa</i>	6.50	55.00
<i>gracilis</i>	6.00	50.00	<i>Juniperus virginiana schottii</i>	6.50	55.00
<i>Cornus florida alba plena</i>	6.50	55.00	<i>Magnolia sieboldii parviflora</i>	7.50	65.00
<i>Cornus florida pendula</i>	7.50	65.00	<i>Magnolia stellata rubra</i>	7.50	65.00
<i>Cornus florida rubra</i>	6.50	55.00	<i>Magnolia stellata</i>		
<i>Cornus florida rubra Prosser</i>	7.50	65.00	<i>Water Lily</i>	7.50	65.00
<i>Cornus florida wehchii</i>	10.00		<i>Parrotia persica</i>	6.50	55.00
<i>Cornus kousa chinensis</i>	6.50	55.00	<i>Pinus cembra</i>	7.00	60.00
<i>Fagus sylvatica asplenifolia</i>	6.50	55.00	<i>Pinus strobus pendula</i>	8.00	
<i>Fagus sylvatica fastigiata</i> ..	6.50	55.00	<i>Pinus sylvestris watereri</i>		
<i>Fagus sylvatica heterophylla</i>	6.50	55.00	<i>glauca</i>	8.00	70.00
<i>Fagus sylvatica pendula</i> ..	6.50	55.00	<i>Pinus Tanyosho</i>	8.00	70.00
<i>Fagus sylvatica purpurea</i>			<i>Quercus robur fastigiata</i> ..	9.00	80.00
<i>pendula</i>	10.00	90.00	<i>Thuja orientalis aurea nana</i>	5.50	45.00
<i>Fagus sylvatica riversi</i>	6.50	55.00	<i>Thuja orientalis conspicua</i>	5.50	45.00
<i>Hamamelis mollis</i>	6.50	55.00	<i>Thuja orientalis</i>		
<i>Ilex opaca femina Hookstraw</i>			<i>elegantissima</i>	5.50	45.00
<i>(Old Heavy Berry)</i>	7.50	65.00	<i>Tsuga canadensis pendula</i>	6.50	55.00
<i>Ilex opaca femina Judge</i>					
<i>Brown</i>	7.50	65.00			

Prices F.O.B. Mountain View, N. J.

Terms to those of established credit—25% down for C.O.D. Packing at cost. 25 at 100 rate, 250 at 1000 rate.

QUALITY LINING-OUT STOCK SINCE 1922

HESS' NURSERIES P. O. Box No. 128 Wayne, N. J.

Check the classified section for our list of seedlings and cuttings from 2 1/4-in. pots.

CANADIAN HEMLOCK and BALSAM FIR Northern-Grown

	Per 100	Per 1000
2 to 4 ins., S.	\$ 2.00	\$ 10.00
3 to 6 ins., S.	3.00	17.50
6 to 9 ins., S.	5.00	30.00
9 to 12 ins., S.	9.00	70.00
12 to 18 ins., S.	12.50	100.00
18 to 24 ins., S.	30.00	

Freshly collected. Well rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, evergreens on request.

WILLIAM CROSBY HORSFORD
Charlotte, Vt.

ORNAMENTAL EVERGREENS

Trees and Shrubs

BAGATELLE NURSERY

P. O. Huntington Station, N. Y.

NORTHERN-COLLECTED

Hemlocks, Ferns, Wild Flowers
Trees, Shrubs

ISAAC LANGLEY WILLIAMS
EXETER, N. H.

TOP-QUALITY LINERS

Seedlings and Hardwood Rooted Cuttings
1-year, row run.

	250 or more
1800 <i>Cornus sibirica</i>	Per 100 per 1000
6 to 9 ins., H.W.	\$3.00 \$25.00
1300 <i>Cornus sibirica</i> , for budding	
9 to 12 ins., H.W.	3.50 30.00
400 <i>Cornus paniculata</i>	
3 to 6 ins., S.	1.50 12.50
1500 <i>Lonicera tatarica rubra</i>	
9 to 12 ins., H.W.	5.00 45.00
500 <i>Symphoricarpos orbiculata</i>	
12 to 18 ins., H.W.	3.50 30.00
1000 <i>Symphoricarpos chenaultii</i>	
12 to 18 ins., H.W.	4.00 35.00
2500 <i>Symphoricarpos racemosa</i>	
9 to 12 ins., H.W.	4.50 40.00
3500 <i>Celastrus orbiculata</i>	3.50 30.00

ADAMS NURSERY, INC.

P. O. Box 525 Westfield, Mass.

B & B EVERGREENS

**Hemlock
Pfitzer Juniper
Globe Arborvitae**

Nursery located north end of
Broad Brook on Connecticut High-
way No. 140.

Ask for Wholesale Price List

E. NORMAND MYERS

Nurseryman
Broad Brook, Conn.

BOULEVARD NURSERIES

Newport, R. I.

- Quality Nursery Stock
- Lining-Out Stock
- Root-Thru Plant Pots

operates his business, the less the competition he encounters. Since his products are the best, they command the highest prices, and he makes more profit per unit sale.

MASSACHUSETTS COURSE

[Continued from page 11]

rate of growth, and Mr. Flemer recommended that this be done only after trees have reached a salable size.

Sees Increasing Tree Demand

He summarized by stating that there is a bright future for shade tree production. Housing projects, replacement of overgrown street tree plantings, urban renewal projects and the revitalization of slum areas, as well as highway plantings, all will swell the demand for well-adapted tree varieties.

During the afternoon session, a panel discussion was headed by Dr. John Havis, head of the Waltham field station. Panel members were Dr. Robert Ticknor, department of nursery culture, Waltham field station, speaking on weed control; Floyd A. Oatman, Adams Nursery, Inc., Westfield, Mass., speaking on fertilization and weed control; Clifford Chater, shade tree laboratory, Waltham field station, speaking on insect control, and Henry Gilbertson, Waltham field station, speaking on disease control.

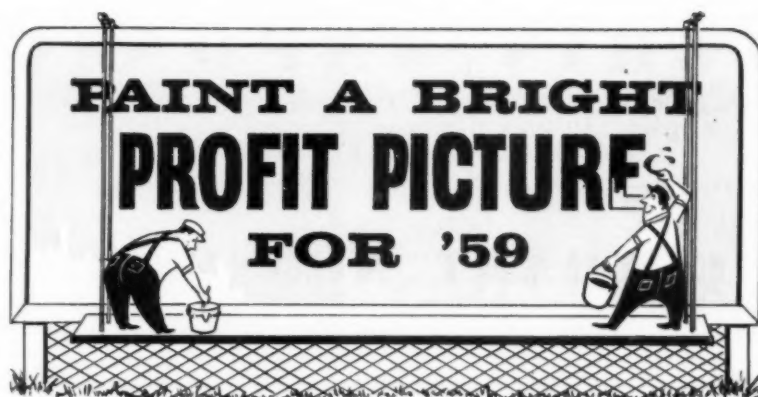
In describing briefly the work which has been done with weed control, Dr. Ticknor mentioned methyl bromide, vapam and mylone as three preplanting materials used for weed control with liners and in seedbeds. Of these, methyl bromide was found most effective and had the advantage of requiring a much shorter waiting period for planting after treatment.

As he stated, however, some objection has been raised to the methyl bromide treatment, because it requires the use of a tarpaulin to cover the treated area. Vapam and mylone, he said, are effective, but the 2 to 3-week waiting period following application constitutes a serious drawback through delay in planting during a busy season.

Test Mulches for Weed Control

Mulches that were used as post-planting weed controls included black plastic and shredded cane. Dr. Ticknor used colored slides of the test plots to show that cane gave the best weed control.

At the present time, the cost of chemical weed control for field stock is relatively high. Dr. Ticknor suggested that the nurseryman might



By Combining the Effective Pulling Power of the
A. A. N. CONVENTION NUMBER

WITH **COLOR** ADS

The only "special" issue of the year — to be published on July 15

Our readers use this issue the year around, referring to it whenever buying decisions are to be made. It serves them as a buyers' guide because practically every firm supplying the nursery trade is represented on its advertising pages. With its national coverage of nearly 10,000 commercial nurserymen, it is the only buyers' guide going to the ENTIRE nursery trade.

SPECIAL RATES FOR COLOR ADS

4-color ads—\$300 per page

Full, living, vibrant color which brings out the depth and brilliance of your color illustration.

Printed on patent-base presses; unmounted electros of 11-pt. thickness, with beveled edge, required.

2-color ads—\$200 per page

Eye-catching ads in either green-and-black or red-and-black, to spark up your advertising message.

Regular wood-mounted, type-high plates are used in printing these special 2-color pages.

Build your firm's prestige and capture the full attention of our readers by using color advertising in this biggest issue of the year.

Mail your space reservation early...
 ...reservation deadline, APRIL 15

AMERICAN NURSERYMAN
 343 S. Dearborn St. Chicago 4, Ill.

PIERIS JAPONICA

We grow select stock for you. Container growers, wholesale distributors, lining-out. All stock from open field rows.

	Per 1000
1-yr.	\$150.00
2-yr.	300.00
3-yr.	450.00

ECKHART NURSERIES

Growers of *Pieris*

Species

Varieties

Hybrids

16 Toppa Blvd.
Newport, R. I

Truck Terminal
Rt. 138, Portsmouth, R. I.

try, on an experimental basis, the use of such materials as Simazine for a long-term weed control, dalapon at the rate of one pound per acre as a control for grass-type weeds or diuron at the rate of one pound per acre.

Mr. Oatman emphasized the importance of the "big three"—nitrogen, phosphorus and potash—and explained how these nutrients affect plant growth. His fertilizer program for shade and flowering trees calls for the application of cow or hen manure alone for the first year after trees are planted. The second year and thereafter, he recommends a June application of a 10-6-4 fertilizer at the rate of 800 pounds per acre.

An accelerated cover crop program which has proved successful over the past three years at the Adams Nursery is as follows: In early spring, workers drill or broadcast one to two bushels of corn per acre and spread 400 pounds of 10-10-10 fertilizer per acre. The corn is plowed down when 30 to 36 inches tall.

One week later (about midsummer) the fields are reseeded with corn and fertilized as before. Mr. Oatman added that Sudan grass, at the rate of 25 to 30 pounds per acre, is a good substitute for corn as a midsummer cover crop. For the fall and winter cover crop, common rye or rye grass is used at the rate of 30 to 40 pounds per acre with 400 pounds of 10-10-10 fertilizer per acre. This is left undisturbed until May, when corn is planted as previously described.

Planting to nursery stock may be done two weeks after the corn cover crop is plowed under. Mr. Oatman remarked, however, that it would be best to use a subplow to make sure the corn is well covered and wait to disk the field until just before planting.

Discussing briefly the irrigation

20,000 TAXUS

Just right for garden center and the nursery trade. Priced just right for quick sales.

	Each Per 100	Each Per 1000
T. wardi, 12 to 16 ins.	\$2.25	\$2.00
T. hatfieldi, 12 to 16 ins.	2.25	2.00
T. browni, 12 to 16 ins.	2.25	2.00
T. capitata, 12 to 16 ins.	2.25	2.00
T. hicksi, 12 to 16 ins.	2.25	2.00
T. henryi, 12 to 16 ins.	2.25	2.00

(The originator's true strain.)

Your visit to the nursery would be most welcome. New Jersey Turnpike Exit No. 9 to New Brunswick and Easton Ave. We are located at corner of Easton Ave. and Cedar Grove Rd., about 7 miles from Pennsylvania Railroad Station.

Route No. 22 to Bound Brook Main St. to South Bound Brook Main St., continue approximately 2 miles from South Bound Brook on Easton Ave. to corner at Cedar Grove Lane.

BELL ACRE NURSERIES

P. O. Box 597, Easton Ave. South Bound Brook, N. J.

TAXUS CAPITATA

80,000 3-yr., S., 6 to 12 ins., \$16.00 per 100; \$120.00 per 1000.

SPECIAL

15,000 Spruce, Norway, 5-yr., T., 12 to 18 ins.

9000 Pine, Scotch, 4-yr., T., 12 to 18 ins.

25,000 Spruce, Colorado, 4-yr., S., 6 to 12 ins.

No reasonable offer refused on entire lot.

Catalog on request.

HEASLEY'S NURSERIES

247 Freeport Rd.

Butler, Pa.

VIBURNUM RHYTIDOPHYLLUM

(Leather-Leaved Evergreen Viburnum)

Extra-heavy, stocky plants furnished with good balls of earth. Prices: Each per 100 (25 or more). Write for special quotations on large quantities.

15 to 18 ins.	\$1.50
18 to 24 ins.	2.00
24 to 30 ins.	2.50
30 to 36 ins.	3.50
3 to 3½ ft.	4.50

ANGELICA NURSERIES

R. D. No. 1

Mohnton, Pa.

12

Sales instead of 1

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GRO-TAINERS®



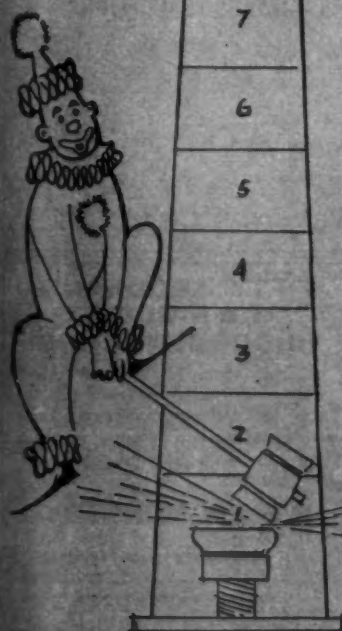
Ring the bell for extra sales, extra profits . . . with Bird Gro-Tainer Seedling Flats. Three sizes enable you to display and sell twelve or six plants at a time. Your customers get healthy plants — there's no root damage caused by cutting individual plants from large flats.

Look at these advantages: molded from hard durable fibre for strength and rigidity; flange around top gives added durability, easier handling; drainage holes provide proper moisture control; sidewall aeration further prevents waterlogging; tapered sides and ends reduce soil requirements without sacrificing top spacing; nesting allows easy, safe storage in minimum space. And Bird Gro-Tainers may be used with Bird Vita-Bands, Peat Pots or Vita-Green Pots for prime plants.

Bird Gro-Tainers are available for immediate delivery. So to ring the bell for greater profits, order from your distributor — now. Or send coupon for complete information and prices.

Sizes

Model	Bottom Dimension	Top Dimension	Height
2	6" x 4"	7 1/4" x 5 1/2"	2 1/4"
3	7" x 5 1/4"	8 1/2" x 6 1/4"	2 1/4"
4	8" x 6"	9 1/4" x 7 1/4"	2 1/4"



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Floor Coverings; Roofing & Sidings;
Fibre & Paper Boxes; Industrial Products

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& SON, inc.
Established 1795

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Please send me free literature, prices and growing instructions on the following:

(Check items on which you want information.)

Peat Pots ☐ Vita-Green Pots ☐ Perennial Pots ☐
Vita-Bands ☐ Gro-Tainer Seedling Flats ☐

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Street & No.

City & State

SPECIAL BARGAIN SALE

For Wholesale Purchasers Only

10 to 15 ins., **60c** 15 to 21 ins., **90c** 21 ins. and up, **\$1.25**

You to Dig

Come see us after April 6. We have sold farms and must vacate. Bring your spades and plenty of burlap. First come—first served. Terms cash. Sale ends May 1.

DIAMOND STATE NURSERIES

Milford, Del.

Phone: GARDEN 2-4919

method used at Adams Nursery, Mr. Oatman stated that this is one of the most important single factors in the growth rate of small or newly planted stock. The nursery is so situated that water can be pumped from a river on two sides of the property. Skinner utility sprinklers are operated steadily for four to six hours and then moved to the next location.

Insect Control

Speaking on insect control in the nursery, Prof. Clifford S. Chater showed colored slides of some of the most troublesome insect pests and the damage they cause to nursery stock.

He emphasized that, whereas chlordane is the recommended control for the black vine weevil often found on taxus varieties, it is only effective in control of the adult weevil and should be applied between June 25 and July 20. Spray should be concentrated on the lower branches and on the soil under plants.

Good control of oyster-shell scale can be obtained with either malathion or DDT applied about June 1. Maple bladder gall may in some years cause unsightly small red swellings on the leaves of both silver and red maples but seems to have no serious effect on the vitality of the trees. He recommended malathion as a good control, provided it is applied as soon as foliage begins to unfold.

Henry Gilbertson discussed tree diseases that give considerable concern to nurserymen. Rust on hawthorn may be either the hawthorn rust or quince rust, he said, but advised that ferbam, at the rate of two pounds to 100 gallons of water, should give good control for both.

For quince rust he suggested two applications at 10-day intervals starting May 1. For hawthorn rust the first application should be made about July 1. According to Mr. Gil-

JAPANESE RED MAPLES

(*Acer palmatum atropurpureum*) Per 100 Per 1000

1-yr., own-root plants, 5 to 8 ins. \$29.00 \$260.00
20 or more plants take 1000 rate.

3-YR., GRAFTED TRANSPLANTS

9 to 12 ins., B.R. Each \$1.80
12 to 15 ins., B.R. 2.00

GRAFTED, FIELD-GROWN, WELL-SHAPED SPECIMENS

12 to 15 ins., B&B Each \$2.80
15 to 18 ins., B&B 3.30
18 to 24 ins., B&B 4.00
24 to 30 ins., B&B 5.50

5% discount on 50 plants or more.

Nursery pickup only on B&B stock.

GORTON'S NURSERY,

7486 E. Lake Rd., Erie, Pa.



Stroudsburg, Pa.

FIFTY THOUSAND OWN-ROOT RHODODENDRONS

A wide range of hardy varieties in one, two and three-year plants. Come and see for yourself, to compare quality and prices, or just come and talk rhododendrons, if you prefer.

WELLS NURSERY

P. O. Box 141 Red Bank, N. J.
Phone: SHadyside 1-0180

HOLLIES

Named Opacas—Hardy to 20° Below

3-yr., 1-gal. nursery cans, \$2.20

5-yr., 2-gal. nursery cans, \$3.25

A few B&B to 5 ft.

Nursery pickup—no shipping.

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516 Stevens Ave. Ridgewood, N. J.

Azaleas—both budded and lining-out stock—are our specialty. See our classified ads.



★ A very dwarf, dense, compact and slow-growing, broad-leaved evergreen which is neatly rounded and requires little shearing. 15 to 18 ins. high, its symmetrical spread of about 3 ft. is generally twice its height. A most versatile shrub which can be used on terraces, foreground and foundation plantings.

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CORLISS BROS.

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21, MASS.

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Growers of Quality

Taxus, Ilex and other Ornaments.

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DECIDUOUS SEEDLINGS

Tied, 3 to 4 ft. and up, 25 per bundle; 2 to 3 ft., 50 per bundle; 18 to 24 ins. and smaller, 100 per bundle.

Ash, Green	Per100	Per1000
2 to 3 ft.....	\$ 4.00	\$ 35.00
18 to 24 ins.....	2.90	25.00
12 to 18 ins.....	2.40	20.00

Box Elder	Per100	Per1000
3 to 4 ft.....	5.00	50.00
2 to 3 ft.....	4.00	35.00
18 to 24 ins.....	2.90	25.00
12 to 18 ins.....	2.40	20.00

Caragana arborescens	Per100	Per1000
3 to 4 ft.....	7.00	65.00
2 to 3 ft.....	6.00	55.00
18 to 24 ins.....	4.50	40.00
12 to 18 ins.....	3.50	30.00

Cherry, Wild Black	Per100	Per1000
3 to 4 ft.....	7.00	65.00
2 to 3 ft.....	5.50	50.00
18 to 24 ins.....	4.50	40.00

Chokecherry	Per100	Per1000
2 to 3 ft.....	8.00	75.00
18 to 24 ins.....	7.50	65.00

Cotoneaster acutifolia	Per100	Per1000
18 to 24 ins., br.....	12.00	100.00
18 to 24 ins.....	7.00	65.00

Elm, American	Per100	Per1000
2 to 3 ft.....	4.00	35.00
18 to 24 ins.....	3.20	25.00
12 to 18 ins.....	2.40	20.00

Elm, Chinese	Per100	Per1000
2 to 3 ft.....	4.50	40.00
6 to 12 ins.....	1.40	12.00

Elm, racemosa (Cork Bark)	Per100	Per1000
18 to 24 ins.....	5.00	45.00
12 to 18 ins.....	3.50	30.00

Lilac, Common	Per100	Per1000
12 to 18 ins.....	6.50	60.00
6 to 9 ins.....	3.50	30.00

Locust, Black	Per100	Per1000
2 to 3 ft.....	4.00	35.00

Honey Locust, Thornless	Per100	Per1000
3 to 4 ft.....	\$ 8.00	\$ 75.00
2 to 3 ft.....	5.00	45.00
18 to 24 ins.....	3.50	30.00

Maple, Ginnala	Per100	Per1000
12 to 18 ins.....	5.50	50.00
9 to 12 ins.....	4.50	40.00

Maple, Soft	Per100	Per1000
2 to 3 ft.....	7.00	60.00
18 to 24 ins.....	4.50	40.00
12 to 18 ins.....	3.20	25.00

Mulberry, Russian	Per100	Per1000
2 to 3 ft.....	4.00	35.00
18 to 24 ins.....	3.20	25.00
12 to 18 ins.....	2.40	20.00

Oak, Bur	Per100	Per1000
18 to 24 ins.....	14.00	120.00
12 to 18 ins.....	8.50	80.00

Oak, Pin	Per100	Per1000
2 to 3 ft.....	22.00	200.00
18 to 24 ins.....	14.00	120.00

Oak, Red	Per100	Per1000
3 to 4 ft.....	33.00	300.00
2 to 3 ft.....	22.00	200.00

Prunus tomentosa	Per100	Per1000
2 to 3 ft.....	15.00	120.00

Rhus canadensis	Per100	Per1000
6 to 12 ins.....	2.70	22.00

Rosa multiflora	Per100	Per1000
3/4-in. cal. and up.....	5.50	50.00
3/4-in. cal.....	5.00	45.00
3/8-in. cal.....	4.00	35.00
8 to 12 ins.....	2.70	22.00

Silverberry	Per100	Per1000
2 to 3 ft.....	9.00	85.00
18 to 24 ins.....	6.50	60.00

Walnut, Black	Per100	Per1000
2 to 3 ft.....	9.00	80.00

Western Sand Cherry	Per100	Per1000
18 to 24 ins.....	7.00	60.00
12 to 18 ins.....	5.00	45.00

SHRUBS

Cornus alba sibirica	Per10	Per100
3 to 4 ft.....	\$7.50	\$70.00
2 to 3 ft.....	6.00	55.00

Cotoneaster acutifolia	Per10	Per100
3 to 4 ft.....	7.00	65.00

Cydonia japonica	Per10	Per100
3 to 4 ft.....	6.50	60.00
2 to 3 ft.....	5.50	50.00

Forsythia intermedia	Per10	Per100
3 to 4 ft.....	7.50	70.00
2 to 3 ft.....	6.00	55.00

Honeysuckle, Plumfield, red	Per10	Per100
18 to 24 ins.....	4.00	35.00

Hydrangea P. G.	Per10	Per100
18 to 24 ins.....	5.50	50.00
12 to 18 ins.....	3.50	30.00

Lilac, Persian, red	Per10	Per100
2 to 3 ft.....	6.00	55.00
18 to 24 ins.....	5.00	45.00

Philadelphus Glacier	Per10	Per100
2 to 3 ft.....	6.50	60.00

Philadelphus lemoinei	Per10	Per100
2 to 3 ft.....	7.00	65.00
18 to 24 ins.....	5.00	50.00

SHADE TREES

Ash, Green	Per10	Per100
8 to 10 ft.....	\$25.00	\$225.00
6 to 8 ft.....	17.50	160.00
5 to 6 ft.....	11.00	100.00

Crab Apple, Almey	Per10	Per100
6 to 8 ft.....	22.00	200.00

Crab Apple, Hops	Per10	Per100
1 1/4-in. cal.....	30.00	275.00
6 to 8 ft.....	16.50	150.00

Elm, American	Per10	Per100
1 1/4-in. cal.....	25.00	225.00
8 to 10 ft.....	18.00	165.00
6 to 8 ft.....	12.00	110.00

Elm, Moline	Per10	Per100
8 to 10 ft.....	22.00	200.00
6 to 8 ft.....	16.50	150.00

Hackberry	Per10	Per100
8 to 10 ft.....	30.00	275.00
6 to 8 ft.....	22.00	200.00

Physocarpus opulifolius, common,	Per10	Per100
light shrub grade.		
18 to 24 ins.....	\$3.50	\$30.00
12 to 18 ins.....	3.00	25.00

Physocarpus opulifolius, common	Per10	Per100
2 to 3 ft.....	5.50	50.00

Spiraea Anthony Waterer	Per10	Per100
18 to 24 ins.....	6.00	55.00
15 to 18 ins.....	5.00	45.00

Spiraea billiardii	Per10	Per100
2 to 3 ft.....	5.50	50.00
18 to 24 ins.....	4.50	40.00

Spiraea froebellii	Per10	Per100
2 to 2 1/2 ft.....	5.50	50.00
18 to 24 ins.....	4.50	40.00
12 to 18 ins.....	4.00	35.00

Spiraea multiflora	Per10	Per100
3 to 4 ft.....	6.50	60.00
2 to 3 ft.....	5.50	50.00
18 to 24 ins.....	4.50	40.00

Spiraea thunbergii	Per10	Per100
3 to 4 ft.....	7.00	65.00
2 to 3 ft.....	5.50	50.00

Spiraea vanhouttei	Per10	Per100
2 to 3 ft.....	4.50	40.00
18 to 24 ins.....	3.50	32.00

Honey Locust, Thornless	Per10	Per100
8 to 10 ft.....	\$33.00	\$300.00

Lilac, Chinese Tree	Per10	Per100
4 to 5 ft.....	15.00	140.00
3 to 4 ft.....	11.00	100.00

Linden, Redmond (Budded Variety)	Per10	Per100
8 to 9 ft.....	35.00	325.00
7 to 8 ft.....	32.50	300.00
6 to 7 ft.....	28.00	250.00
5 to 6 ft.....	16.50	150.00
4 to 5 ft.....	13.00	110.00

Maple, Soft	Per10	Per100
8 to 10 ft.....	18.00	165.00
6 to 8 ft.....	15.50	140.00

Oak, Pin	Per10	Per100
2-in. cal.....	80.00	750.00
1 1/2-in. cal.....	60.00	550.00
1 1/4-in. cal.....	45.00	400.00

LINING-OUT EVERGREENS

	Each per 10	Each per 100	Each per 1000
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Abies, Balsam	Each per 10	Each per 100	Each per 1000
6 to 9 ins., R.P.....	\$0.15	\$0.12	...
4 to 6 ins., R.P.....	.10	.08	...

Abies concolor	Each per 10	Each per 100	Each per 1000
12 to 15 ins., R.P....	.40	.35	...
9 to 12 ins., R.P....	.25	.20	...

Juniper, excelsa stricta	Each per 10	Each per 100	Each per 1000
9 to 12 ins., TTT....	.70	.65	\$0.60

Juniper, Pfitzer	Each per 10	Each per 100	Each per 1000
18 to 24 ins., TTT....	1.50	1.35	1.25
15 to 18 ins., TTT....	1.10	1.00	.90
12 to 15 ins., TTT....	.85	.80	.75
9 to 12 ins., TTT....	.70	.65	.60

Juniper, Pfitzer Hets	Each per 10	Each per 100	Each per 1000
18 to 24 ins., TTT....	1.45	1.35	1.25
12 to 15 ins., TTT....	.85	.80	.75

Juniper, Savin	Each per 10	Each per 100	Each per 1000
18 to 24 ins., TTT....	1.45	1.35	1.25
15 to 18 ins., TTT....	1.10	1.00	.90
12 to 15 ins., TTT....	.85	.80	.75

Thuja occidentalis pyramidalis	Each per 10	Each per 100	Each per 1000
15 to 18 ins., TTT....	1.10	1.00	.90
12 to 15 ins., TTT....	.85	.80	.75
9 to 12 ins., TTT....	.70	.65	.60

Thuja occidentalis (Common American Arborvitae)	Each per 10	Each per 100	Each per 1000
6 to 9 ins., R.P.....	.10	.08	.06

Thuja occidentalis woodwardii (Woodward Globe)	Each per 10	Each per 100	Each per 1000
9 to 12 ins., TTT....	.70	.65	.60

HORIZONTAL JUNIPERS

	Each per 10	Each per 100	Each per 1000
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Juniper, Admirabilis	Each per 10	Each per 100	Each per 1000
15 to 18 ins., TTT....	\$1.00	\$0.90	\$0.80
12 to 15 ins., TTT....	.75	.70	.65

Juniper, Adpressus	Each per 10	Each per 100	Each per 1000
9 to 12 ins., TTT....	.60	.55	.50

Juniper, Andorra	Each per 10	Each per 100	Each per 1000
15 to 18 ins., TTT....	1.00	.90	.80
12 to 15 ins., TTT....	.75	.70	.65
9 to 12 ins., TTT....	.60	.55	.50

Juniper, Petraeus	Each per 10	Each per 100	Each per 1000
9 to 12 ins., TTT....	.60	.55	.50

FRUIT TREE STOCKS

Per100 Per1000

Malus Columbia	Per100	Per1000
No. 2.....	\$4.50	\$40.00
No. 3.....	3.50	30.00

Malus Osman	Per100	Per1000
No. 2.....	4.50	40.00
No. 3.....	3.50	30.00

Malus Rosybloom	Per100	Per1000
No. 2.....	4.50	40.00
No. 3.....	3.50	30.00

Pear, ussuriensis	Per100	Per1000
3/4-in. cal.....	4.50	40.00
No. 1.....	4.10	36.00

Plum, Native	Per100	Per1000
3/4-in. cal.....	4.50	40.00
No. 1.....	4.00	35.00
No. 2.....	2.90	25.00

Prunus hortulana	Per100	Per1000
We are growing this as a nonsuckering variety.		
3/4-in. cal.....	5.00	45.00
No. 1.....	4.50	40.00
No. 2.....	3.50	30.00

Prunus japonica	Per100	Per1000
18 to 24 ins.....	7.00	65.00
12 to 18 ins.....	5.50	50.00

Prunus padus	Per100	Per1000
18 to 24 ins.....	7.00	65.00

Send us your list for quotations.

TERMS: As per our published list which includes satisfactory credit or cash with order. Please order full bunches. 300 of any variety and size at 1000

ROSES

Again we offer them from the finest rose-growing areas:

CALIFORNIA — ARIZONA

All the leading patented and standard varieties.

Price Schedule of Standard Varieties

Grade	Each 10 to 240	Each 250 to 990	Each 1000 to 2490	Each 2500 to 5000	Each Over 5000
No. 1	\$0.60	\$0.58	\$0.56	\$0.55	\$0.54
No. 1½ .....	.50	.48	.46	.45	.44

NO CHARGE FOR PACKING—F.O.B. MOORESTOWN, N. J.

FREE INDIVIDUAL LABELS

Colored Pictures—8x10 ins., 5c each.

MOORESTOWN GARDENS, Inc.

55 E. OAK AVE.

MOORESTOWN (Burlington County), N. J.

(Exit 4 on New Jersey Turnpike)

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Complete List Upon Request



SUB-ZERO ROSES

Look for this tag to be sure of getting original Brownell Roses . . . personally grown by Mr. Brownell. The famous varieties, plus exciting new ones, too.

Write for Color Catalog No. 3 today!

WALTER D. BROWNELL, JR.

Brightbridge Rose Co., East Providence 14, R. I.



CONTAINER - GROWN PLANTS

We will have many thousands of container-grown plants ready for shipment after July 1, 1959.

See classified ad section for surplus listing of miscellaneous stock for spring shipment.

VERKADE'S NURSERIES

P. O. Box 336 New London, Conn.

CANADIAN HEMLOCK BALSAM FIR

Per 100 Per 1000

2 to 4 ins., S.	\$ 2.00	\$ 10.00
3 to 6 ins., S.	3.00	17.00
6 to 9 ins., S.	5.00	30.00
9 to 12 ins., S.	9.00	70.00
12 to 18 ins., S.	12.00	100.00

Well-rooted, carefully collected seedlings. Fuddled and packed in sphagnum moss. Cash with order.

Trade list on request.

R. M. COLE

Box 37

Charlotte, Vt.

NORWAY MAPLES

	Each 1 to 9	Each 10 to 49	Each 50 and up
1½ to 2 ins. ...	\$10.00	\$ 9.00	\$ 8.00
2 to 2½ ins. ...	12.00	10.00	9.00
2½ to 3 ins. ...	15.00	13.00	11.00
3 to 3½ ins. ...	19.00	....	....

SCHWEDLER MAPLES

1½ to 2 ins. ...	10.00	9.00	8.00
2 to 2½ ins. ...	12.00	10.00	9.00
2½ to 3 ins. ...	16.00	....	....

ADAMS NURSERY, INC.

Westfield, Mass.

LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list on printed stationery.

DEERFIELD NURSERIES

DEERFIELD, N. J.

LINING-OUT STOCK

Seedlings, Rooted Cuttings and Transplants

Write for list.

LEGHORN'S EVERGREEN NURSERY CO., INC.
50 Geer St. Cromwell, Conn.

QUALITY LINERS

In Wide Assortment
NURSERY SALES, INC.

525 Stevens Ave., P. O. Box 295
RIDGWOOD, N. J.
Gl. 4-6848

KOREAN FRAGRANT VIBURNUM

Viburnum carlesii—one of the best.
2 to 3 ft., B&B. \$3.50
3 to 4 ft., B&B. 5.00
Larger specimens according to value.

GEORGE F. BLOOMER NURSERIES
Rt. 69 Flemington, N. J.
Phone: Flemington 155-J

TREE PEONIES

Ready to Pot for Spring Sales
Ask for Wholesale Price List

VANDER POL TREE PEONY GARDENS
Fairhaven, Mass.

bertson, crown gall of willow, which causes a tumorlike growth, can best be controlled by either exclusion or by growing nonsusceptible varieties. Although antibiotic dips are now being tried at the Waltham field station, no recommendations have been made as yet.

Anthraxnose of oak and sycamore generally show up when leaves are about one-half inch in diameter and again when they are about fully grown. Considerable browning of the leaves and severe defoliation may occur. Spraying with phenyl mercury, 7½ per cent lactate or 10 per cent acetate form, was suggested as the best control.

Handling Trees for Sale

Concluding the afternoon program, C. Powers Taylor, Rosedale Nurseries, Hawthorne, N. Y., discussed the preparation and handling of trees for sale. As important points to remember in digging and baling, he emphasized the following: (1) Inclusion of the maximum number of roots, (2) careful removal of excess soil to reduce weight, (3) clean trimming of damaged roots and (4) skillful burlapping for maximum stability.

At Rosedale Nursery, Mr. Taylor brought out, large or small trees are dug at any time of the season except during a brief period when new growth is soft and succulent.

"We like also to have trees of various sizes dug and on display within the sales area," he commented. When freshly dug stock is displayed in the sales area, the customer can make a choice more conveniently and quickly than when he must select trees in the field.

Where trees are kept in the sales area for a brief period only, no special care is required other than thorough watering. Mr. Taylor suggested that, if trees are kept for extended periods or under hot, dry weather conditions, some protection of the ball aids in reducing the need for watering. Shingletow, sphagnum moss or wet hay may be used.

Mr. Taylor also pointed out that an attractive package is a real sales aid. The use of new or unprinted burlap that has been neatly pinned or tied will greatly increase the eye appeal of trees in the salesyard.

Ticknor Honored at Banquet

The Thursday program concluded with a banquet highlighted by the presentation of a "money tree" to Dr. Robert Ticknor. Dr. Ticknor, who has been engaged in nursery culture research and active in the Massachusetts Nurserymen's Associ-

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NEW MODELS

5 H.P. — 2 SPEEDS and REVERSE. The smallest-size tiller available for general use, particularly for greenhouse bench work. Very maneuverable. Equipped with clogproof, shockproof digging tools. 15-in.-width cut. Reserve-A-Matic design.



THE HACKNEY

Named for the agile, willing, light harness horse

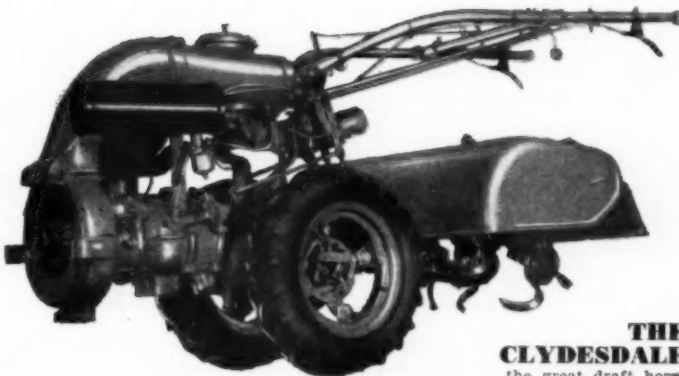
Reverse-A-Matic Design permits use of 20 various attachments for both the Hackney and Morgan models. Run engine in reverse for such multipurpose uses as 30-in. rotary mower — 4-ft. snowplow or bulldozer — 42-in. sickle bar, making both models all-season machines.



THE MORGAN

Named for the stout-hearted horse, famous for all-around usefulness.

5 H.P. — 3 SPEEDS and REVERSE. Medium-size tiller for contractor or nurseryman requiring peak production of tilling, extreme maneuverability. Automotive clutch. 20-in.-width cut.



THE CLYDESDALE
the great draft horse

10 H.P. — 4 SPEEDS and REVERSE. Heavy-duty, rugged tiller, 30-in.-width cut. Automotive-type clutch. This machine is equipped with heavy-duty, nonclogging digging tools.

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TAXUS LINERS

2-yr., T., \$275.00 per 1000

Taxus andersoni
Taxus browni
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Taxus Halloran
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Taxus mooni

3-yr., T., \$325.00 per 1000

Taxus hicksi

4-yr., TT., \$550.00 per 1000

Taxus cuspidata

Taxus Halloran

BALLED AND BURLAPPED

Taxus capitata, 15 to 18 ins.

Taxus capitata, 18 to 24 ins.

Taxus Halloran, 15 to 18 ins.

Taxus mooni, 15 to 18 ins.

— Also —

Thuja nigra, 2½ to 3 ft.

Thuja nigra, 3 to 3½ ft.

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ILEX CONVEXA

One of the largest blocks of hardy, northern-grown Ilex. Heavy, well-sheared plants with exceptionally good color. Prices are each per 100 (25 or more). Write for special quotation on large quantities.

18 to 24 ins.\$3.00

24 to 30 ins.3.75

30 to 36 ins.5.50

3 to 3½ ft.6.50

ANGELICA NURSERIES

R. D. No. 1

Mohnton, Pa.

ation, has accepted a new position in his home state at the University of Oregon.

In making the presentation, Willard Bond, Wyman's Garden Centers, Inc., Framingham, expressed hope that the Massachusetts nurserymen would not lose contact with Dr. Ticknor, as he will now be in close association with Oregon nurserymen, who have supplied New England with stock not commonly grown in this area.

Guest speaker for the evening was Gilbert E. Merrill, Boston Museum of Science, Boston, Mass. Entitled "Facts and Fancies about Some Woodland Rogues," Mr. Merrill's talk dwelt with small wild animals, birds and reptiles native to New England.

George E. Tuoti, Tuoti Landscape Co., Ridgefield, Conn., opened the Friday morning session with a discussion of trees for general landscape purposes. Mr. Tuoti has had many years of experience in landscape designing for small homes as well as estates and effectively showed how the proper use of plant material can transform the appearance of the landscape scene.

Proper placement of trees and shrubs may effectively conceal serious architectural faults of a house and will add depth and perspective to the landscape scene. He commented also that in revamping old plantings, one should take advantage of large-size plant material which may already be present on the property.

Recommends Quick Sketches

Mr. Tuoti finds it a great help to be able to visualize and estimate landscape plantings on the spot. Quick sketches, he said, often sell a landscape job more readily than a complete scale drawing, which may leave the client confused.

In discussing trees for the small home landscape, Prof. Harold O. Perkins, University of Connecticut, Storrs, indicated the need for proper placement of trees not only to provide shade but also to frame the house and form a suitable background for the landscape picture.

With contemporary low, rambling structures, more widespread use should be made of medium-size trees such as zelkova, linden, sophora, cladrastis, cercidiphyllum and paper birch.

Variety in Flowering Trees

In communities where there is an increased interest in more colorful landscapes, one should avoid the tendency to limit plantings to one or two species of small flowering



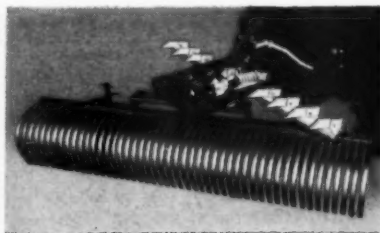
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takes even the most difficult jobs in its stride. Hard-packed soil and rough ridges are easily broken up by the scarifier teeth. Half-buried stones and roots are loosened. The rake then follows to remove the stones and roots while grading the loosened soil into a smooth surface ready to seed. YORK's one-tool mechanization helps you complete all types of landscaping jobs more quickly. RAKE and SCARIFIER can be used in combination or separately.



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EVERGREENS: Canadian Hemlock, Concolor Fir, Hetz Juniper and Austrian Pine.

FLOWERING SHRUBS: Variegated Dogwood, Flowering Quince, Euonymus alatus and compactus, Forsythia, Amur River and Ibolium Privet, Zabel Honeysuckle, Spiraea, Lilac and Viburnum.

SHADE TREES: Maple — Norway, Scarlet and Sugar, Niobe Weeping Willow and Pin Oak.

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AMERICAN ARBORVITAE B&B

	Each
3 to 4 ft.	\$2.75
2 to 3 ft.	1.75
20 to 30 ins., field-grown, T.	1.00

Especially heavy, fine specimens. Available in large or small lots, F.O.B. our nursery. Treated for shipment out of the Japanese beetle zone.

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Sagamore, Pa.

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trees. Professor Perkins showed, by means of colored slides, how such trees as Cornus kousa, magnolia, Oxydendrum arboreum and Laburnum vossii could be used to provide greater variety.

What trees have proved to be undesirable for public plantings? This question was answered authoritatively by Herbert J. Cran, Jr., arborist, Connecticut Light & Power Co., Berlin, Conn.

Listed as unsatisfactory for street use were poplars, willow, silver maple, box elder, Moline elm, Siberian elm, mulberry, horse chestnut, sweet gum and female ginkgo. Trees selected for such use should provide long-term street beauty and at the same time not present expensive maintenance problems.

Mr. Cran emphasized the importance of setting up a master street tree plan in all communities in an effort to select the best tree to fit the site. As an aid in this program, the Connecticut utilities published a handbook entitled "What Tree Shall We Plant?", which gives illustrations of recommended trees and notes the conditions under which they may be grown.

The short course was concluded Friday afternoon with a panel of members from the Massachusetts Arborists Association. Included were Joseph Brine, moderator; Albert Dodge, Dodge Associates, Inc., Wenham; Richard Halloran, Edward Halloran, Inc., Newton, and Roy Keene, Frost & Higgins Co., Arlington.

In discussing the care of trees after planting, Roy Keene stated that proper watering is of greatest importance. In heavy soils, such as clay, drainage should be provided. Loam should be carefully washed in at time of planting to prevent air pockets.

He also suggested the use of a soil ring around the top of the ball to hold water and the use of a sprinkler or soaker hose for extended periods to be certain moisture will penetrate deep enough. The homeowner, he said, should always be given proper instructions for watering.

Care should be taken to set trees straight. When guy wires or cables are used, these should be checked periodically to prevent any possibility of girdling. In most cases, Mr. Keene stated, guys can be removed from the tree after two or three growing seasons.

With respect to feeding, he suggested only a limited amount of fertilizer or manure mixed with loam or peat moss when planting is done. After one or two growing seasons,

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Collected. Nursery-Grown.

Any quantity available.

1/2 to 12-in. cal.

Beech, Ash, Red Maple, Red

Oak, Birch and Shadblow

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	Per 100
Mugho Pine 4 to 8 ins., T.	\$20.00
Canadian Hemlock 4 to 8 ins., T.	22.50
American Holly 6 to 10 ins., T.	27.50
Pink-Flowering Dogwood 10 to 15 ins., grafts.	75.00
15 to 24 ins., grafts.	85.00

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HARDY AZALEAS

All azaleas are 2 to 3-yr. transplants, branched, and carry a small ball of soil.
AZALEA AMOENA. Very hardy evergreen foliage which turns rich bronze in winter. Semidouble, purple flowers, 4 to 6 ins. \$15.00 per 100
AZALEA JAPONICA. Very hardy. Wide range of color. Red, pink, yellow, etc. Deciduous.
 6 to 8 ins., T. \$25.00 per 100

AZALEA KAEMPFER. Seedlings (Japanese seed). Tall-growing, large flowers in various shades of pink and red. Flowers profusely; blooms when evergreen types fail. Deciduous.
 4 to 6 ins., T. \$15.00 per 100

AZALEA SCHLIPPENBACH. Considered by many the best azalea of all. Very large pink flowers; very large leaves which turn pink in fall. Deciduous.
 4 to 6 ins., T., heavy \$25.00 per 100

AZALEA WHITE. Evergreen. Large flowers with a pink blush in throat, similar to but much harder than Azalea Indica Alba.
 4 to 8 ins., T. \$15.00 per 100

AZALEA KURUME

Very hardy. Will stand 15 degrees below zero. Gives a great variety of color and types, from choice whites to orchids, deepest pinks and reds.
 2-yr., T., 4 to 8 ins. \$15.00 per 100

AZALEA HINODEGIRI

Brilliant Red
 2-yr., T., 3 to 6 ins., br. \$15.00 per 100
 Each plant carries a nice ball of soil.

LEUCOTHOE GATESBAEI

A good broad-leaved evergreen that grows in dense shade. Lily-of-the-Valley like flowers, reddish-bronze foliage in winter. Contrasts well with Azaleas and Rhododendrons. Fine for flower arrangements.
 6 to 8 ins., T. Each
 8 to 10 ins., T. 25c

EUONYMUS ALATUS

Cork Bark Euonymus
 Interesting corklike wings on branches. Red berries, foliage turns bright rose-pink in fall. Really spectacular then.
 6 to 9 ins., T. \$10.00 per 100
 10 to 12 ins., T. 15.00 per 100

PIERIS JAPONICA

The most beautiful broad-leaved evergreen of all. In summer the color of the foliage is always changing, first red, then pale green and then dark green. In August the flower buds form in graceful racemes for next spring's flowers. White Lily-of-the-Valley flowers appear with the first warm weather, and flowers often last 6 weeks. Grows well in sun or shade. Makes a nice contrast with Azaleas and Rhododendrons.

As far as we know, no nursery has ever had too much *Pieris japonica*. We had over 10,000 18 to 36-in. plants a few years ago, and today we are so oversold on it that we cannot maintain a stock of 1,000 12 to 15-in. plants. It sells on sight and transplants easily at almost any time of the year. It grows rapidly into salable sizes. Can be used in any kind of planting. Can be transplanted into beds now. Each plant carries a nice ball of soil.
 4 to 6 ins., T. \$15.00 per 100
 6 to 8 ins., T. 20.00 per 100

ILEX CRENATA CONVEXA

(Ilex Bullata)

Owing to our unusual success in propagating this desirable item, we offer it at a very low price. Over 150,000 in stock. It is a very choice, very hardy, low-growing evergreen with shiny, dark green, convex, boxwood-like leaves. Grows fast into money, up to 2 feet, and there slows down. Ultimate size 3 feet high and 4 feet wide. Easier to grow than Yews and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect low hedge.
 6 to 8 ins., 2-yr., T. Each
 8 to 10 ins., 2-yr., T. 15c
 12 to 14 ins., 2-yr., T. 20c

ENKIANTHUS CAMPANULATUS

Can be transplanted into beds now.
 For those desiring a different kind of plant for the shrub border or ericaceous plantings, we recommend *Enkianthus campanulatus*. Red stems, dark green leaves, cream to pink bell-like flowers that are useful for flower arrangements and a scarlet fall foliage.
 4 to 8 ins., TT. \$15.00 per 100

Send for list of rare plants.

VIBURNUM AMERICANUM

White flowers. Quantities of red berries.
 10 to 12 ins., T. \$7.50 per 100

JAPANESE BOXWOOD

Buxus japonica is a little-appreciated evergreen because it is not well enough known. It grows fast up to 3 ft., shears well and can easily be kept at any size. Its light green, glossy leaves contrast well with other evergreens, and it will grow in sun or deepest shade—very hardy.
 6 to 8 ins., 2-yr., T. \$10.00 per 100

AMERICAN BOXWOOD

Each
 4 to 6 ins., T. 10c
 6 to 8 ins., T. 15c

ENGLISH BOXWOOD

Part of the charm of many old gardens is produced by the edgings of Old English Boxwood. Plant some in a bed 6 x 8 ins. and in a couple of years you will have a stock for your customers. Its appeal is irresistible. It can be transplanted now.
 3 to 4 ins., T. \$10.00 per 100

TAXUS TRANSPLANTS

Each
 6 to 8 ins. 30c
 Cuspidata 30c
 Media browni 20c
 Media hicksi 25c

CHINESE MAGNOLIAS

All on own roots.

Soulangeana, pink; *Soulangeana nigra*, dark purplish-pink; *rustica rubra*, pink; *alba superba*, white; *Pink Superba*, pink; *lanceol.*, good pink; *stellata* (Star Magnolia), semidouble pure white; *Alexandrina*, large, late pink. All 2-yr., 12 to 18 ins. and on own roots, 75c each. Minimum order, 5 of one kind.

ALANWOLD NURSERY

Neshaminy, Bucks Co., Pa.

the punch hole or similar method of feeding should be used outside the ball or original tree pit to aid in the outward spread of tree roots.

Other aids recommended to assure better growth and development of the newly planted tree were the use of mulches such as peat moss or manure to conserve moisture and protection of the tree trunk through the use of burlap or special paper wrapping strips.

Young Trees Unpopular

Mr. Halloran pointed out that young trees are not popular items in landscape planting. From the buyer's point of view, they seem expensive and look unimpressive for the first few seasons. Nurserymen find they have to overcome the buyer's lack of

DO YOU NEED A BETTER TAXUS CAPITATA? OF COURSE YOU DO!

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 Available in 2-yr., bed-grown seedlings, \$37.00 per 100;
 250 or more, \$35.00 per 100.
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Deep River, Conn.

OPERATING A GARDEN CENTER, by John J. Pinney. Articles reprinted from American Nurseryman. 128 p., illus. (1957) \$3.00
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Propagators and Growers
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Scotch Pine—		
Austrian Hill Strain		
3-yr., S., 8 to 16 ins....	\$ 5.00	\$ 30.00
2-yr., S., 4 to 8 ins....	4.00	25.00
2-yr., S., 4 to 6 ins....	3.00	20.00
2-yr., S., 2 to 4 ins....	2.50	10.00
Scotch Pine—French Strain		
3-yr., S., 6 to 12 ins....	5.00	30.00
3-yr., S., 3 to 5 ins....	3.50	22.00
2-yr., S., 3 to 6 ins....	3.00	20.00
Austrian Pine		
2-yr., S., 4 to 8 ins....	4.00	25.00
3-yr., S., 5 to 10 ins....	5.00	32.50
White Pine		
2-yr., S., 3 to 5 ins....	4.00	25.00
Norway Spruce		
(2-0), 2-yr., 2 to 3 ins....	2.50	15.00
(2-0), 2-yr., 3 to 5 ins....	4.00	25.00
(2-1), 3-yr., 4 to 7 ins....	6.00	40.00
Colorado Blue Spruce		
(2-0), 2-yr., 3 to 6 ins....	4.00	25.00
(2-1), 3-yr., 3 to 6 ins....	7.50	50.00
Hemlock		
3-yr., T.	6.00	40.00
4-yr., T.	12.00	100.00

Complete list on request

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Taxus cuspidata capitata
5 to 6 ft. 6 to 7 ft.

Taxus cuspidata nana
6 to 7-ft. spread, 7 to 8-ft. spread

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interest and knowledge in order to sell them.

Mr. Halloran emphasized the importance of making the planting pit at least 24 inches larger than the size of the ball when one is setting out a young tree. The sides should be cut straight and a soft bottom left in the pit. He feels that there is a definite advantage in setting trees at a slightly higher level than that at which they were originally planted.

Albert Dodge, heading up the Massachusetts Certified Arborists Association, discussed requirements necessary to become an association member. In explaining the services offered by a qualified arborist, he showed how pruning, feeding, spraying and cabling are all of great value, enhancing the beauty of shade and forest trees, increasing their vigor and prolonging their life.

Mr. Dodge pointed out that it would be to the mutual advantage of arborists and nurserymen to cooperate in the promotion of tree-planting programs for Arbor day, historic trees, memorial trees and living Christmas trees. He hoped also that nurserymen would join the arborists in their opposition to the use of salt and chlorides on highways, since use of these chemicals has caused serious damage to many roadside plantings.

MARYLAND SHORT COURSE

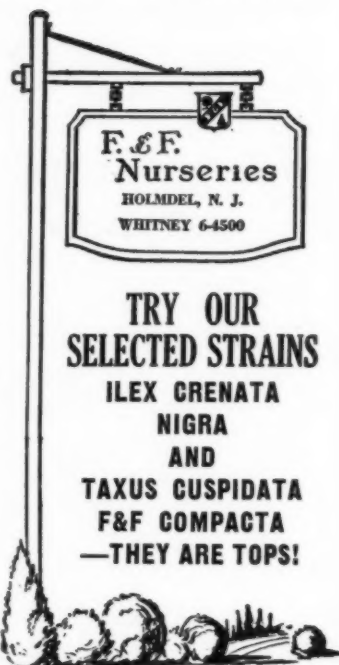
[Continued from page 12]

soil acacias on alkaline soil acacias, in order for the former to grow successfully in alkaline soil, was of interest to the plant propagators present. This technique was accomplished by inducing mother plants growing in acid soil in nursery rows to produce long whips. These whips were inarched onto stock growing in alkaline soil in pots on a platform about four feet high placed around the plants.

The morning session ended with reports on research of interest to nurserymen being conducted at the University of Maryland. Dr. Lee J. Enright, department of horticulture, University of Maryland, summarized his work on rooting larger cuttings.

Quite by accident, he related, it was discovered that several species of evergreens of commercial value produced roots when 2-year-old and even 3-year-old wood was used rather than the customary current-season's wood. Results of this work, Dr. Enright said, had been published in the American Nurseryman magazine and the Journal of Forestry, and he could supply reprints to anyone as long as the supply lasted.

Dr. Warren T. Johnson, depart-



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NIGRA
AND
TAXUS CUSPIDATA
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—THEY ARE TOPS!**

GROUND COVERS

	100	1000
Ajuga reptans		
Field-grown	\$15.00
Ajuga reptans rubra		
Field-grown	15.00	....
Pachysandra terminalis		
1-yr., field-grown ..	5.00	\$ 45.00
(\$40.00 in lots of 5000 or more)		
2-yr., field-grown ..	7.50	70.00
2½-in. pot-grown ..	11.00	100.00
Euonymus radicans coloratus		
2-yr., field-grown ..	18.00	100.90
Hedera helix		
2½-in. pot-grown ..	12.00	115.00
Hedera helix hibernica		
2½-in. pot-grown ..	13.00	120.00
Lonicera japonica halliana		
2½-in. pot-grown ..	10.50	95.00
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WHITE FLOWER FARM
Litchfield 40, Conn.

ment of entomology, University of Maryland, summarized briefly recent research of his department. In nursery inspections and surveys conducted in both 1957 and 1958, Dr. Johnson found the following insects to be of the greatest occurrence and importance: Azalea lace bug, spider mites, azalea white fly, bagworm, boxwood leaf miner, boxwood psyllid, hawthorn lace bug, holly leaf miner, euonymus scale and white-pine aphids.

Of these 10 major pests, two were selected for research investigations. The azalea lace bug was selected, since it was found to be a problem in practically all nurseries, and research was aimed at developing a 1-shot control using some of the systemic insecticides. One result of this project indicated that the granular insecticides are superior in effect to the sprays. The insecticides cause objectionable odors and possible retardation of the rooting of cuttings, however, so that results are far from the point at which recommendations can be made. Nurserymen, Dr. Johnson stated, should continue to use malathion for lace bug control unless otherwise advised.

Euonymus Scale

The euonymus scale, ninth commonest nursery pest in Maryland, was also selected for study. Many nurserymen are practically abandoning certain varieties of euonymus, because of their susceptibility to scale infestations and the difficulty of control. It may be some time before a solution to this problem can be found. The systemic insecticides used in both spray and drench methods have not given adequate control. Dr. Johnson reported, however, that the research is being continued.

The afternoon session opened with a brief report by Dr. Conrad B. Link, horticulture department, University of Maryland, on the university's project on container-grown plants, which is conducted in co-operation with the Maryland Nurserymen's Association. Hundreds of young plants donated by Maryland nurserymen are being grown in four different mixes of soil, loam, sand and peat and fed with a completely soluble fertilizer.

Five species, including dogwood, pyracantha, taxus and holly, are being tested. If successful, the project can be enlarged to test lighter-weight materials in the soil mixes, different soluble fertilizers, slower-acting organic fertilizers and a wider selection of plants, Dr. Link said.

In discussing new developments in

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THE IDEAL YEW FOR HEDGES

Maximum width, 18 to 24 ins.

Height, up to 8 ft.

Compact—Rich green colors

BEAUTIFUL LIVING WALLS

Also excellent for foundations and as specimens in the ground or in planting boxes. Trade Tested—Buy with confidence.

FLUSHING—has large, sturdy, rich dark green foliage and bright red berries. Maximum width about 18 ins.

GRANDIFOLIA—is a sturdy, compact column with large, long, heavy dark green foliage. Maximum width about 21 ins.

PILARIS—has gracefully curled foliage of medium-green color that is very attractive. Maximum width about 21 ins.

PYRAMIDALIS—is a rich, showy, full-bushed pyramid with medium-green foliage and bright red berries. Maximum width about 24 ins.

ROBUSTA—forms a dense, compact column and has large sturdy dark green foliage. Maximum width about 21 ins.

SENTINALIS—is the narrowest—a compact, slim sentinel of green with attractive curled foliage and bright red berries. Maximum width about 15 ins.

STRICTA—makes an ideal hedge—dense, compact, medium-green, sturdy with maximum width about 21 ins.

VRIDIS—has year-round fresh green color and a twist in the foliage that makes it different. A real good plant. Maximum width about 18 ins.

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3-yr., C, TT, 9 to 12 ins. 75.00 per 100 (No Sentinalis)

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(2-3), 5-yr., T., 15 to 24 ins.	10.00	70.00
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(3-0), 3-yr., S., 5 to 12 ins.	6.50	40.00
(2-1), 3-yr., T., 4 to 8 ins.	7.50	50.00
(2-2), 4-yr., T., 5 to 10 ins.	9.00	60.00
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plant propagation, James Wells, James S. Wells Nursery, Inc., Red Bank, N. J., said that propagators are gaining a better understanding of principles that have been known for some time. Modern methods of misting, he asserted, are nothing more than a means of effecting water conservation, the same principle that has prompted growers to build greenhouses, to spray down the house, to wax the cuttings or to use plastic films. There probably is no one best method of reducing water losses, Mr. Wells observed; all of them work satisfactorily when properly used.

Skill Remains Essential

Though hormones, controlled use of water and various media are helpful, he stated, the skill of the propagator is still required to produce good plants. The best propagating technique is what works best for you, Mr. Wells reported. If your rooting is successful, do not try to change to something supposedly better. If your rooting is not successful, it would be best to experiment with different media.

Mr. Wells advised the nurserymen to keep accurate records showing how many cuttings were stuck and how many actually rooted. Usually, Mr. Wells continued, a larger cutting will root better and quicker and make a larger plant than a smaller cutting. Larger cuttings, however, are not always available, and one may not have space available in the greenhouse to accommodate them.

Mr. Wells, who illustrated his talk with slides and live plants, expressed the thought that younger cuttings under mist may be more successful than cuttings taken later in the year. Many growers still follow the old practice, he said, of taking cuttings late, forgetting that they can be rooted earlier with mist. This earlier rooting allows for earlier hardening-off and permits the plant to endure the winter more successfully.

Charles W. McComb, entomologist, state board of agriculture, University of Maryland, reported that scales, as a group, continue to be one of the major pest problems of Maryland nurserymen. There are two relatively new scales in Maryland that nurserymen should be on their guard against, Mr. McComb advised.

One of these two, unfortunately, has already become established in the state. There is actually no approved name as yet for this pest but, since it is primarily found on hemlock, it is often referred to as the hemlock scale. There are two known

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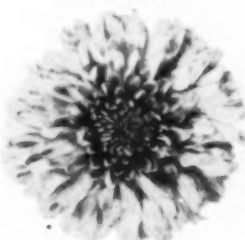
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infestations near Baltimore; other local infestations occur in Connecticut, Pennsylvania, Ohio and New Jersey. The pest attacks yews and has been found on balsam fir as well as hemlock. Trees infested with this scale take on a whitewashed, mealy appearance, especially in the spring and fall, because of the waxy scale secretions.

Difficult to Control

Control of this pest is difficult. First, the female is well protected against any chemical sprays or dusts because of the waxy secretions. Also, it lives as an adult under the skin of the last molt, which acts as a protecting shell much like a turtle's. Only half the room in this capsule, however, is occupied by the female, the other half being filled with eggs, which remain there protected until they hatch.

Second, control is difficult because crawlers are produced continuously throughout the year. Field and laboratory studies have shown crawlers and mature male and female scales to be present at all periods of the year, with population peaks reached in the spring and fall.

DDT and malathion mixtures, Mr. McComb continued, obtain good kills of crawlers, but the number of applications needed to bring

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Black Hill Spruce, 5-yr. transplants (2-3), 5 to 10 ins.	85.00
Colorado Blue Spruce, 5-yr. transplants (2-3), 6 to 12 ins.	150.00
Norway Spruce, 4-yr. transplants (2-2), 4 to 8 ins.	70.00
Taxus capitata, 4-yr. transplants (2-2), 5 to 10 ins.	225.00

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	All 3 and 4-yr. seedlings are root pruned.
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Mugho Pine, 4-yr. seedlings (4-0), 5 to 10 ins.	35.00
Black Hill Spruce, 4-yr. seedlings (4-0), 4 to 8 ins.	35.00
Colorado Blue Spruce, 3-yr. seedlings (3-0), 5 to 10 ins.	40.00
Engelmann Blue Spruce, 3-yr. seedlings (3-0), 3 to 6 ins.	30.00
Norway Spruce, 3-yr. seedlings (3-0), 3 to 6 ins.	30.00
White Spruce, 3-yr. seedlings (3-0), 5 to 10 ins.	30.00
Japanese Black Pine, 2-yr. seedlings (2-0), 3 to 6 ins.	30.00

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about complete control makes the procedure highly impractical. Until a good method of control can be found, it is most important that this pest be kept from spreading outside areas known to be infested. Infested plants outside these areas should be destroyed promptly, Mr. McComb advised.

The entomologist also warned the nurserymen about a so-called wax scale that has been found several times in Maryland and should be kept from spreading. The wax scale, Mr. McComb noted, should not be confused with the cottony-cushion scale, which is similar in appearance. This new pest has a number of different hosts; in Maryland it has been collected on hemlock, camellia and holly.

Shipments Should Be Checked

Wax scales are well established in Florida and are known to occur in the Norfolk area of Virginia. Shipments of plants from the southeastern states should be carefully checked for this pest. In one case, a holly that was heavily infested was cleared of wax scale by DDT treatment. Good coverage of the entire plant, including the trunk and branches, is necessary for control, Mr. McComb concluded.

The last speaker of the day was Prof. Robert P. Meahl, horticulture department, Pennsylvania State University, University Park, who showed slides to illustrate his discussion of better plants and their uses in the landscape. Nurserymen, the professor stated, should provide their customers with materials having long periods of attractiveness. These should be hardy and should have a relatively long flowering period, good form and attractive foliage.

Professor Meahl said that certain plants are outstandingly superior in landscape values over long periods of time and that nurserymen have a responsibility in educating their customers to appreciate these superior values.

Two short films in sound and color were shown during the short course through the courtesy of Dudley A. Raine, plant pest control division, United States Department of Agriculture, ElkrIDGE, Md. The first showed the history of the gypsy moth in the United States, its life cycle, destructive habits and methods of control. The second, on the Japanese beetle, depicted the life history of this damaging pest and methods of fumigating and treating plants for shipment outside the beetle quarantine zone.

The short course ended with a

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Chief, early red, No. 1	\$ 8.00	\$ 75.00
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Morrison, black, tips	7.50	70.00
Sodus, purple, tips	8.00	75.00
Black Hawk (New Iowa), black, tips	14.00	120.00
September, new everbearing red, No. 1	14.00	120.00

GOOSEBERRIES

	Per 10	Per 100
Pixwell, dark red, 2-yr., No. 1	\$4.00	\$35.00

CURRANTS

	Per 10	Per 100
Red Lake (Minnesota), 2-yr., No. 1	\$2.25	\$20.00
Fay's Prolific, 2-yr., No. 1	2.00	17.50

GRAPES

	Per 10	Per 100
Beta, hardy, black, 2-yr., No. 1	\$1.80	\$16.00
Concord, black, 2-yr., No. 1	1.65	15.00
Fredonia, black, 2-yr., No. 1	2.00	18.00
Moore's Early, black, 2-yr., No. 1	2.00	18.00
Niagara, white, 2-yr., No. 1	2.00	18.00
Worden, black, 2-yr., No. 1	2.00	18.00

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18 to 24 ins., T.	3.50	30.00
2 to 3 ft., T.	4.50	40.00
3 to 4 ft., T.	6.00	55.00

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	Per 10	Per 100
18 to 24 ins., T.	\$3.00	\$25.00
2 to 3 ft., T.	4.00	35.00
3 to 4 ft., T.	5.00	45.00
9 to 12 ins., S. (\$35.00 per 1000)	.60	4.00
12 to 18 ins., S. (\$45.00 per 1000)	.75	5.00
18 to 24 ins., S. (\$60.00 per 1000)	.90	6.50
18 to 24 ins., S. heavy grade (\$75.00 per 1000)	1.00	8.00
2 to 3 ft., S., (\$85.00 per 1000)	1.10	9.00

ASPARAGUS

	Per 100	Per 1000
Washington, 2-yr., roots	\$3.00	\$25.00

RHUBARB

	Per 10	Per 100
Chipman's Canada Red	\$4.00	\$35.00
Common		
½ to 1-in.	.75	6.00
1 to 1½-in.	1.25	10.00
1½ to 2-in.	1.50	12.50

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brief business meeting of the Maryland West chapter, American Association of Nurserymen.

HEAD MICHIGAN GROUP

The Kalamazoo Valley Landscape and Nurserymen's Association held its 13th annual election of officers February 19 at the Harris hotel, Kalamazoo, Mich. Re-elected as president of the association was Robert Scovie, Inland Orchards & Nurseries, Marshall. Other officers for the coming year are Paul Armintrout, Armintrout's Evergreen Nursery, Allegan, vice-president; Cliff Walters, Dutch Mountain Nursery, Augusta, secretary, and Henry De Visser, De Visser Bros. Landscaping, Kalamazoo, treasurer.

Andy Peck, Peck's Landscape Service, Battle Creek, was elected to a 2-year term as a K. V. L. N. A. director, and Harley D. Wedel, Wedel's Nursery & Garden Center, Kalamazoo, was elected to the board of directors of the Michigan Association of Nurserymen for two years. Also discussed at the meeting were final arrangements for the home garden clinic scheduled for March 13 and 14 at Battle Creek.

H. D. W.

ADDS RABBIT REPELLENT

The Medical Service Corp., Chicago, Ill., announces that it has added the rabbit repellent called Z.I.P. to its line of pest repellents. Supplementing a rabbit repellent used on

dormant plants during the winter—Ringwood Rabbit Repellent—that the company markets, Z.I.P. is intended for use on young vegetables and flowers all through the growing season. The product is sold in aerosol containers for convenient spray application.

PLANNING a nursery to be located in Johnson county, near Kansas City, Mo., are Mr. and Mrs. Ira Stein. The development will be called Arbor Nall Farm.

TWENTY acres occupied at Omaha, Neb., by the Marshall Nurseries, Arlington, Neb., have been sold to the Hinky Dink Stores for the erection of a shopping center.



CHARLIE CHESTNUT



JUST A DAY IN AUGUST

You never know what the day will bring forth as the members well know. Take one day last August when I got to work in the morning, I went to the office where Emil generally starts the day, but he wasn't anywhere in sight. I found him out in back of the greenhouse throwing feed to his chickens. Generally his wife does that. Emil has raised Rhode Island Reds since I have known him, they're the best all-around breed Emil says. He used to take a lot of prizes when they had the poultry show in Riverbend years ago; one time he showed at the county fair in Lake Park.

Emil had on a blue conductors coat with brass buttons that was much too big for him and a conductor's cap that was two sizes too small. I hadn't seen the outfit before so I says, "Where in the world did you get that outfit, and when does the next train leave for Lake Park?"

"This hat and coat belonged to George Blakely; he was before your time, I think Chas.," he says. "When George died several years ago, his wife left his hat and coat in the front closet. It hung there for a dozen years. One day I was there trimming her privet hedge, she was hanging stuff on the clothes line to air out and stood there looking over this coat and hat and she says to me would I like to have the outfit. That's how I come to get the stuff. I remember George used to play in the fireman's band here in Riverbend. He played the tuba. Later on when the band went to South Bend, he had to give up the tuba because of a sore lip and he took to playing the glockenspiel for a while."

I could see that Emil was in a reminiscent mood that morning, thinking of the old days as he so often does nowadays as he is getting along in years. So I didn't ask him what was the order of the day for me at the nursery.

"One time I put in two Sycamores for George," Emil continued, "when I seen a lot of cages of rabbits out in back. He had six kinds, there was pink eyes, catface, Belgians, etc. George was anxious to get out of the rabbit business as he was away a good deal. He used to run between Lake Park and Kankakee on the

Illinois Central. His wife had to do most of the feeding and taking care of the rabbits. First thing I knew I was in the rabbit business and I took the whole outfit home. I forget what the deal was, but I seem to remember giving him a little cash and a few items of nursery stock," he says.

"How long was you a rabbit king?" I says, "there wasn't no rabbits on the place when I started to work."

"Let's see," says Emil, "it must have been three years or so. Emma got so she was so attached to the rabbits she would never eat one. I

sold a few but there wasn't no big scramble for rabbits in them days and I was getting tired of the whole deal. One day old Frank Westrick from Otter Creek dropped in to make a deal for honeysuckle cuttings. Me and Frank was doing a lot of trading at that time and the first thing I knew Frank had traded me out of the rabbit business, lock, stock and barrel. He come down with his truck and carted the whole lot home with him. That's one of the hatches there in back of the corn crib that's full of old clay pots."

As Emil was thru with the chickens, we walked over to the office. "I

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18 to 24 ins., B&B	4.50	4.25
24 to 30 ins., B&B	5.25	5.00
Ilex convexa		
15 to 18 ins., B&B, heavy, sheared	2.50	2.25
18 to 24 ins., B&B, heavy, sheared	3.00	2.75
24 to 30 ins., B&B, heavy, sheared	3.75	3.50
Ilex rotundifolia		
15 to 18 ins., B&B, heavy	2.25	2.00
18 to 24 ins., B&B, heavy	2.75	2.50
24 to 30 ins., B&B, heavy	3.25	3.00
30 to 36 ins., B&B, heavy	3.75	3.50
Cotoneaster apiculata		
24 to 30 ins., B&B, heavy	3.25	3.00
Euonymus alatus compactus		
30 to 36 ins., B.R., heavy	1.75	1.50
No winter burn. Japanese beetle certificate furnished. Truck delivery. Part loads can be arranged.		

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Seedlings—Transplants

Finished Stock

Send for price list.



Scarff's Nursery, Inc.

Special List — Top-Quality Stock

— Finest Miami Valley Grown —

New Carlisle, Ohio

Phone: VI-5-2561

ORNAMENTAL SHRUBS

Barberry, Crimson Pygmy
Cornus elegantissima
Cydonia japonica rubra
Euonymus alatus and compactus
E. yedoensis (Bittersweet Tree)
Forsythia, in variety
Kolkwitzia amabilis
Lonicera, in variety
(including New
Clavey's Dwarf)
Salix caprea (Large
French Pussy Willow)
Viburnums, in variety

Pot o' Gold

(Hypericum
kalimianum)
Ball of golden-
yellow flowers
of distinctive
beauty through-
out the sum-
mer.

No winter in-
jury showing
up to date this
year.



EVERGREENS

Specimen Plants for
Landscaping
or Garden Center Sales—
Excellent Color—
Solid Clay B&B

We invite you to visit our nursery,
otherwise check Trade List for vari-
eties and prices.

LINING-OUT STOCK

Well-grown and well-rooted.

DECIDUOUS

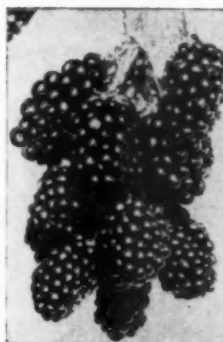
Cornus mas
Hamamelis vernalis
Rhus cotinus
Koeleria
Euonymus yedoensis
Viburnums

Many others in price list.

EVERGREENS

Heavy, 2 and 3-yr. transplants,
ready for the field.
Taxus capitata, hicksi and
hunnelliana
Thuja Woodward Globe
Juniper, Irish, Swedish and Greek

NEW 'MIDNITE' BLACKBERRY



Introduced last year because of
its large, high-quality berries; its
fine fruiting performance and
strong, upright, thrifty cane char-
acteristic in comparison to other
blackberry varieties.

COMPLETE LIST
FRUIT TREES
BERRY PLANTS

Send for Complete Trade List and Prices of Fruits, Ornamental Shrubs, Vines, Evergreens, Special Mail-Order Items and Lining-Out Stock.
We invite you to drive over to our nursery to see this stock.

was going to cultivate today," Emil says, "but Victoria has trouble with her stifle joint again and she has got to be rested for a day or two. Speaking of old Frank Westrick," he continued, "I got a good notion to drive up and see him about some privet cuttin's. Frank has got a hedge clean around his place and he aint making cuttin's anymore. After we get the mail we'll drive up to Otter Creek."

There wasnt nothing in the mail but a statement from John Bush-bottom, which Emil threw in the waste basket. "I aint paying John for them Soft Maples, they was all as crooked as John himself," Emil says.

Any of the older members who can remember back to the days when Frank used to go to the convention will remember old Frank. Around home he always wears a pair of rubber boots, two pair of pants and a vest that comes almost down to his knees. He is a very short man and always has about two weeks growth of gray stubble on his face. His felt hat I'll bet is the same one he wore to the worlds fair in 1892. Frank is the old school nurseryman. He always raises a few pigs, farms with horses and sells off a lot or two when he gets short of money. The town

VIBURNUM CARLESI

Bushy, 5-yr., 18 to 24-in. plants,
\$65.00 per 100. Ideal for canning or
growing on.

Finished Viburnum carlesi in all
grades through 3½ ft. available.

WYOMING NURSERIES

C. E. KERN
34 Vermont Ave.
CINCINNATI 15, O.

ROSES

Quality and Service

MENTOR ROSE GROWERS, INC.

MENTOR, O.
Write for your copy of
our current list.

PINE

Red and White
2 to 3 ft., B&B, \$2.00 each, lots of 100.

SUNNYVALE NURSERY
Box 241 Athens, O.

PFITZER JUNIPER

	Each
18 to 24 ins.	\$2.00
24 to 30 ins.	2.50
30 to 36 ins.	2.75
36 to 42 ins.	3.25
42 to 48 ins.	3.50

A full line of nursery stock.

NEUMANN BROS.

Greenville, Ill.
Phone: 877-W1

EUONYMUS ALATUS COMPACTUS

Heavy Landscape Material

	Per 10	Per 100	Per 1000
1½ to 2 ft.	\$1.00	\$0.90	....
2 to 3 ft.	1.35	1.15	\$1.05
3 to 4 ft.	1.70	1.35	1.25

PAUL E. BLEILE & SONS NURSERY
29 E. Washington St. Norwalk, O.
Phone: 3-9075



TAXUS

is our specialty.
Bed stock—Liners
Finished—Specimen.

Send for List

EAGLE CREEK NURSERY CO., NEW AUGUSTA, IND.

CHRISTMAS TREE AND ORNAMENTAL LINERS

SCOTCH PINE				
Available in French, Scotch Highland, East Anglia and Austrian Hills strains.				
	100	1000	25,000	100,000
(2-0), 2 to 4 ins.	\$2.50	\$13.00	\$11.50	\$10.00
(2-0), 3 to 6 ins.	3.50	20.00	17.50	15.00
(2-0), 4 to 10 ins. Available in all except French	4.00	20.00	18.00	16.00
(3-0), 6 to 15 ins. French only	6.00	30.00	27.50	25.00
AUSTRIAN PINE				
(2-0), 3 to 6 ins. heavy	3.50	19.00	17.00	15.00
COLORADO BLUE SPRUCE				
(2-0), 2 to 6 ins.	3.50	20.00	18.00	16.00
WHITE SPRUCE				
(2-0), 2 to 6 ins.	3.50	20.00	18.00	16.00
NORWAY SPRUCE				
(2-0), 2 to 6 ins.	3.50	20.00	18.00	16.00
AMERICAN ARBORVITAE				
(2-0), 1 to 3 ins.	3.50	20.00	18.00	16.00
(3-0), 3 to 6 ins.	5.00	25.00	22.50	....
TAXUS CUSPIDATA				
	Each per 100		Each per 1000	
R. C.	\$.11		\$.10	
1-yr., frames .....	.22		.20	
2-yr., frames .....	.30		.28	
TAXUS BROWNI				
R. C. ....	.11		.10	
1-yr., frames .....	.22		.20	
2-yr., frames .....	.30		.28	
JUNIPERUS GLAUCA HETZI				
R. C. ....	.11		.10	
1-yr., frames .....	.21		.20	
2-yr., frames .....	.27		.26	
WOODWARD GLOBE ARBORVITAE				
R. C. ....	.11		.10	
1-yr., frames .....	.21		.20	
2-yr., frames .....	.27		.26	
ALSO A COMPLETE LINE OF POTTED ORNAMENTALS FOR GARDEN CENTER SALES.				

2% for cash with order.
All stock grown on sand soil and has a very fibrous root system.
25 at 100 rate; 250 at 1000 rate; 10,000 at 25,000 rate.
For complete list write:

JOHN G. ZELENKA EVERGREEN NURSERIES
R. 2, Grand Haven, Mich.

KLYN'S

Roses — Rhododendrons
Magnolias — True Japanese Maples
Hollies — Taxus — Hardy Azaleas

Many other choice items. For 35 years.

GERARD K. KLYN, INC.

Mentor, Ohio

SEEDS

for the Nurseryman and Forester.
Write for catalog.

F. W. SCHUMACHER, HORTICULTURIST
SANDWICH, MASS.

Peach
Hydrangea P. G.
Hydrangea P. G. (Tree Form)
Ornamental Trees
Grapevines, 1-yr. and 2-yr.

Thorne Brewster

WILLOWBEND NURSERY
PERRY, O.



EVERGREENS

Growers of Quality Evergreens
Lining-out Stock a Specialty

Write for Trade List

EVERGREEN NURSERY CO.
Established 1864 : STURGEON BAY, WIS.



TRAAS' NURSERIES

Langley, B. C., Canada

Clonal Rootstock for Fruit Trees.

M., M. 104, 106, 109, 111, M.XXV, E. M. 11, Mazzard F. 12/1.

Our Botanical Experience
Is Your Guarantee!

**NORTHERN-GROWN
FRUIT TREES**

DWARF and STANDARD

Write for wholesale list.

MALONEY BROS. NURSERY CO.
DANVILLE, N. Y.

has grown up all around him and he could sell out anytime for a subdivision. He has known Emil for 40 years and together they make a great pair. Frank aint plain crooked like John Bushbottom, but he is shrewd and a person has to be on their toes when there is a deal on.

Me and Emil drove up on the old road and come in from the back at Franks place. Thats the gravel road that runs past the Norwegian Cemetery; its shorter by a couple of miles, Emil claims.

"Hello Emil!, Hi Chas." Frank says as we drove in. Frank was butchering a hog and already had it hung up ready to carve up. "Just in time to help me with the cutting up," he says to Emil. Emil used to raise pigs himself and he is an old hand at butchering, so I left the two of them with the pig and went off by myself to have a look around the place.

Frank has twenty or more buildings of one sort and another, chicken houses, pig pens, horse barns, tool shed storage with leantos on every building full of old broken machinery and tools of one sort or another. He keeps three horses; tractors is the ruination of nurserymen, Frank always says.

When I got back to Emil and Frank they were all thru with the butchering. Frank had invited me and Emil to stay for dinner. You cant hurry Frank and it dont pay to start any business conversation for at least a couple of hours. So after dinner, Emil lighted his old corncob and settled down to make a deal.

"Frank, you aint trimmed your privet for two or three years, how about me and Charlie giving it a good trim, we might get a few good cuttin's," Emil says.

"By George, you're too late, Emil," he says. "I already promised Jake from the F&M nursery; he was in here last Tuesday. Sorry you didnt come first as I would sooner give 'em to you as to give 'em to Jake. He is going to let me have all the Chinese Elm I want. All I want is a couple of hundred. People dont call much for them anymore. Lots of folks dont know if the Dutch Elm disease is for Chinese Elms and you cant talk 'em out of it."

Emil never said nothing about the privet deal, but he says to Frank, "Whatever happened to the rabbits you got from me years ago, I don't see any around now Frank?"

"How'd you ever think of them rabbits, Emil?" he says. "Why I aint had any rabbits for 25 years, closer to 30 years I guess. I got down to 20

or so when one night my son Frank, Jr., opened all the cages and turned 'em loose. He was only 5 or 6 years at the time. And you know Emil to this day there's a dukes mixture of rabbits here in the brush, pinkeyes, and once in a while a half breed cat-face."

Frank hitched up his pants and took a chew of Mail Pouch. "One time when I was at your place I seen you have a half dozen or so peacocks there in the chicken yard. My wife is after me to get one to run around the place here. If you would let me have a pair of them peacocks, I'll leave you have what you want in privet cuttin's," Frank says.

"What about Jake, aint he liable to put up quite a fuss if he comes up and sees somebody else was here first?" Emil says.

"I'll just tell Jake I had to use some cuttin's myself or else I changed my mind. You bring up a couple of peacocks and take all the cuttin's you want," says Frank.

"That will give me something to sell at the convention next winter if I can get a good batch Frank; its a deal. I'll pick out a dandy pair and me and Charlie will be up in a few days and trim the hedge," says Emil.

After that the conversation run on till after three o'clock on all subjects such as coon dogs, fishing in Bowers Lake, duck hunting on the river, the merits of tractors versus horses in the nursery and a general rundown on the old days in the nursery business. Then we said goodbye and drove on home.

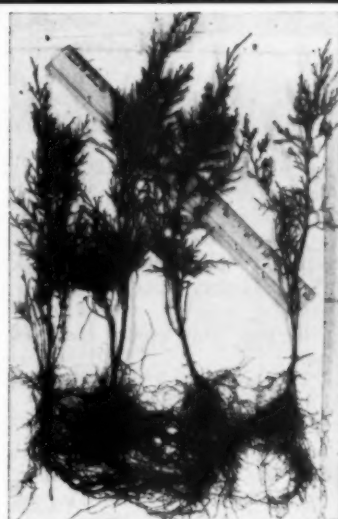
When we got on the road Emil says to me, "You know Chas. I bet old Frank aint seen Jake for years, I think he just threw up a smoke screen about them cuttin's until he could see how the ground laid. Lets stop in on the way home and see if Jake is in."

Jake was out in back greasing the windmill when we drove in. "What kind of skullduggery are you two up to?" says Jake. "You ought to be home hoeing the rhubarb."

"You got any pups left of that last litter of coon dogs, Jake?" says Emil. "I'd like to get one to train for this winter. I was talking to Sime Normanson last week. He claims there is the biggest crop of coons he seen since the winter I lost my 12 guage."

"Did you ever find that gun, Emil?" Jake says.

"I found it in the spring when the snow went off," says Emil. "It wasnt ever the same after that. I traded it to Doc Hart for an over and under job he didnt want, but



Blue Hetz Juniper



Pfitzer Juniper

Forsythia Spring Glory
and Forsythia Lynwood Gold

	Each
Andorra Juniper	
6 to 8 ins.	\$0.05
Burk Juniper	
6 to 10 ins. ....	.14
Blue Hetz Juniper	
6 to 10 ins. ....	.05
Pfitzer Juniper	
6 to 10 ins. ....	.07
6 to 8 ins., bands ....	.16
Euonymus patens, small or	
medium-leaved, 8 to 10 ins. ..	.04
Forsythia Lynwood Gold	
6 to 10 ins. ....	.05
Forsythia Spring Glory	
6 to 10 ins. ....	.04
Euonymus coloratus	
6 to 10 ins. ....	.04

Less than 300, total order, 2c more per plant. Less than 50 of any item, 4c more per plant. See classified under lining-out stock for other items.

McININCH GREENHOUSES
St. Joseph, Mo.

GENERAL LINE OF HARDY PLANTS

See our ad in March 15 issue,
page 77, or write:

**VAN ENGEN'S KALAMAZOO
GARDENS NURSERY**

206 Richard Ave.
Kalamazoo 33, Mich.

HYPERICUM HIDCOTE

New dwarf, hardier moserianum.
Large, waxy, golden-yellow flowers
practically all summer.

Per 100 Per 1000
3-yr., heavy plants,
cut back to 12 to 15
ins. for handling..\$40.00 \$300.00

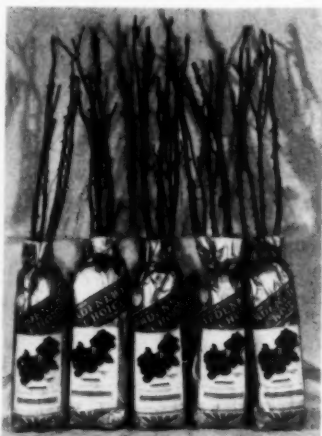
GILSON GARDENS
Perry, Ohio

CASH and CARRY

Packaged nursery stock will increase your volume and decrease the time you must spend with each customer.

ROSEBUSHES

You can't beat our west coast grown roses. All are top-quality packaged in attractive, colorful, well-filled bags with extra-large picture labels attached. The utmost in eye appeal.

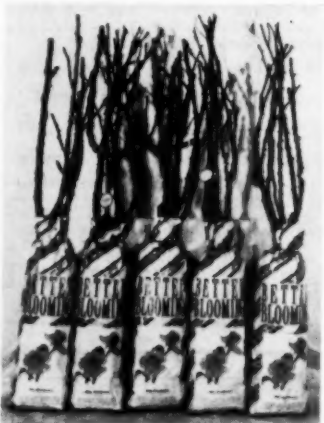


GARDENER'S CHOICE

Sell a top-quality line. Sell Gardener's Choice. You get a gold bag that doesn't fade or become shabby.

BETTER BLOOMING

Another of our brand names with proven sales appeal.



A FULL LINE

of Flowering Shrubs, Ornamental Trees, Shade Trees, Fruit Trees, Vines and Roots in correct sized packages.

SEND FOR CATALOG

THE MONROE NURSERY CO.

Ilgenfritz since 1847

Box 665 Monroe, Mich.

I wish I had it back. Maybe I can talk Doc out of it again."

"I got one liver and white left Emil, good voice but a little slow yet. I'll let him go for \$35.00 but I ought to get a hundred at least," says Jake.

"Let's see him," says Emil, "I might take him."

Jake finished his greasing and took us around to the barn where he keeps his dogs. "Here he is," says Jake, "Mighty nice prospect for coons."

"I'll give you \$10.00 cash," says Emil.

"You bought it," says Jake, "want to take him with you?"

Emil borrowed \$4 from me and we put the dog in a box and set him in the car. Emil was real pleased.

"Jake, how are you fixed for privet cuttin's," says Emil, "have you got any to trade?"

"Any amount you want Emil, you just name it. I got a deal with the court house in Lake Park. I'm going to trim their whole hedge, 1200 feet of it."

"Well, I'll check up and let you know," says Emil. And with that final remark we started for home.

When we got down the road Emil turned to me and he says, "Nurserymen are a queer lot Chas. Now you wouldn't think old Frank was such a liar, would you now? A pretty cagey old timer if you ask me."

LONG ISLAND SHOW

[Continued from page 9]

ported from Italy, but with a different treatment. The steps leading to the patio were flanked by two circular Fantasi tile walls. One contained shrubs, and the other was a small pool with a multiple-tiered spray fountain. The plants in the garden included Parson's juniper, ajuga, dianthus, Snow azaleas, Coral Bell azalea, English ivy and tulips.

Walton Scherer, Northport, L. I., had his usual interesting display of aquatic plants and running water. Two plastic pools with underwater lighting were set in a soothing natural setting connected by a small stream. The first pool was fed by a small waterfall. An interesting feature was a 60-year-old handmade Japanese lantern four feet high fashioned from one stone. The plants consisted of wild flowers, water lilies, creeping water hyacinths, mountain laurel, Sagittaria sinensis and spiral palm.

Atlantic Avenue Nursery, Inc., Freeport, L. I., reproduced a small flagstone patio and house facade. A unique fish fountain spouted water

SPECIALS

RHUBARB

	Per 1000
Canada Red, No. 1 division..	\$200.00
MacDonald, No. 1 division..	200.00
Medium grade on both varieties	140.00
Valentine (newest Canadian introduction), No. 1 division	400.00

COTONEASTER ACUTIFOLIA

12 to 18 ins., S.....	55.00
12 to 15 ins., lightly br.....	60.00
2 to 3 ft., T., well-br.....	300.00

CORKSCREW WILLOW

(Salix matsudana tortuosa)

	Per 10	Per 100
6 to 8 ft.....	\$12.50	\$110.00
5 to 6 ft.....	10.00	90.00
4 to 5 ft.....	8.00	75.00

SUMMIT NURSERIES, INC.

Stillwater, Minn.

QUALITY NURSERY STOCK FOR SPRING

Taxus hicksi 1 1/2 to 2 ft., 2 to 2 1/2 ft.
Taxus cuspidata 2 to 2 1/2 ft., 2 1/2 to 3 ft.
Juniperus pfitzeriana 2 to 2 1/2 ft., 2 1/2 to 3 ft., 3 to 4 ft.
Juniperus pfitzeriana compacta 2 to 2 1/2 ft., 2 1/2 to 3 ft.
Juniperus hetzi 2 to 2 1/2 ft., 2 1/2 to 3 ft., 3 to 4 ft.
Juniperus Andorra 1 1/2 to 2 ft., 2 to 2 1/2 ft., 2 1/2 to 3 ft.
Arbortvitae, pyramidalis 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 8 ft.
Arbortvitae, American 3 to 4 ft., 4 to 5 ft., 5 to 6 ft.
Norway Spruce 2 to 2 1/2 ft., 2 1/2 to 3 ft., 3 to 4 ft., 4 to 5 ft.
Colorado Spruce 2 to 2 1/2 ft., 2 1/2 to 3 ft., 3 to 4 ft., 4 to 5 ft.
Douglas Fir 4 to 5 ft., 5 to 6 ft., 6 to 8 ft.

PAUL E. BLEILE & SONS NURSERY
29 E. Washington St. Norwalk, O.
Phone: 3-9075

LYNWOOD GOLD FORSYTHIA

Recent import from Ireland. Full-flowered; deep golden color. Heavy, outdoor frame-rooted cuttings
\$12.00 per 100; \$100.00 per 1000.

BEARDSLEE NURSERY
Perry, Ohio

PRESEASON SURPLUS SALE

The following offering is for a limited time only. Orders are taken subject to stock being unsold at the time orders are received.

SHRUBS

	Each 10 to 29	Each 30 and up
<i>Chaenomeles japonica</i>		
15 to 18 ins.	\$0.30	\$0.24
1½ to 2 ft. ....	.40	.35
<i>Cornus amomum</i>		
3 to 4 ft. ....	.55	.45
4 to 5 ft. ....	.70	.55
<i>Cotoneaster divaricata</i>		
2 to 2 ft., B&B	2.75	2.30
3 to 4 ft., B&B	3.25	2.75
4 to 5 ft., B&B	4.00	3.50
2 to 3 ft., B.R.	1.10	.95
3 to 4 ft., B.R.	1.40	1.25
<i>Elaeagnus angustifolia</i>		
2 to 4 ft. ....	.65	.55
4 to 5 ft. ....	.90	.75
5 to 6 ft.	1.25	1.10
<i>Euonymus yedoensis</i>		
2 to 3 ft. ....	.55	.45
<i>Forsythia spectabilis</i>		
2 to 3 ft. ....	.45	.40
3 to 4 ft. ....	.60	.50
<i>Lonicera morrowi</i>		
3 to 4 ft. ....	.60	.50
4 to 5 ft. ....	.70	.60
<i>Lonicera tatarica</i>		
2 to 3 ft. ....	.50	.40
3 to 4 ft. ....	.60	.50
<i>Philadelphus coronarius</i>		
2 to 3 ft. ....	.50	.40
3 to 4 ft. ....	.60	.50
<i>Philadelphus grandiflorus</i>		
2 to 3 ft. ....	.45	.35
3 to 4 ft. ....	.55	.45
<i>Philadelphus virginialis</i>		
1½ to 2 ft. ....	.45	.35
2 to 3 ft. ....	.55	.45
<i>Physocarpus opulifolius</i>		
5 to 6 ft. ....	.95	.80
6 to 7 ft.	1.05	.90
<i>Salix arctica</i>		
1½ to 2 ft. ....	.35	.25
2 to 3 ft. ....	.45	.35
<i>Spiraea froebeli</i>		
12 to 15 ins. ....	.25	.20
15 to 18 ins. ....	.40	.30

	Each 10 to 29	Each 30 and up
<i>Symphoricarpos albus</i>		
1½ to 2 ft.	\$0.25	\$0.20
2 to 3 ft. ....	.30	.25
<i>Symphoricarpos orbiculatus</i>		
1½ to 2 ft. ....	.25	.20
2 to 3 ft. ....	.30	.25
3 to 4 ft. ....	.40	.30
<i>Syringa chinensis</i> (Persian)		
2 to 3 ft. ....	.50	.40
3 to 4 ft. ....	.65	.55
<i>Tamarix africana</i>		
3 to 4 ft. ....	.65	.55
4 to 5 ft. ....	.85	.75
5 to 6 ft.	1.00	.95
<i>Viburnum dentatum</i>		
1½ to 2 ft. ....	.40	.35
2 to 3 ft. ....	.50	.45
<i>Viburnum lantana</i>		
2 to 3 ft. ....	.50	.40
3 to 4 ft. ....	.65	.55
<i>Viburnum trilobum</i>		
3 to 4 ft. ....	.65	.55
4 to 5 ft. ....	.90	.80
5 to 6 ft.	1.15	1.00

WEST-COAST ROSEBUSHES

The following varieties are still in good supply. Many others are available. All are west-coast grown.

<i>Ami Quinard</i>	<i>McGredy's Ivory</i>
<i>Bingo</i>	<i>McGredy's Scarlet</i>
<i>Cl. Improved Blaze</i>	<i>Nocturne</i>
<i>Burnaby</i>	<i>Paul's Scarlet</i>
<i>Carousel</i>	<i>Peace</i>
<i>Charlotte Armstrong</i>	<i>Pieture</i>
<i>Christopher Stone</i>	<i>Pink Fragrance</i>
<i>Chrysler Imperial</i>	<i>Poinsettia</i>
<i>Confessa de Santiago</i>	<i>Pres. H. Hoover</i>
<i>Eclipse</i>	<i>Red Ripples</i>
<i>Etoile de Hollande</i>	<i>Spartan</i>
<i>Frau Karl Druschki</i>	<i>Talisman</i>
<i>Helen Traubel</i>	<i>Cl. Talisman</i>
<i>Improved Lafayette</i>	<i>Tiffany</i>

Terms: F.O.B. Monroe. Packing additional. Deduct 5% for cash with order. Above prices hold only so long as surplus quantities of stock remain unsold.

SHADE TREES

	Each 10 to 19	Each 30 and up
<i>Acer platanoides</i>		
8 to 10 ft.	\$3.50	\$3.25
1½ to 1½-in. cal.	4.25	4.00
1½ to 1½-in. cal.	5.25	5.00
<i>Acer platanoides schweideri</i>		
1½ to 1½-in. cal.	5.25	5.00
1½ to 1½-in. cal.	6.25	6.00
1½ to 2-in. cal.	7.75	7.50
<i>Celtis occidentalis</i>		
8 to 10 ft.	3.25	3.00
1½ to 1½-in. cal.	3.25	3.00
<i>Fraxinus lanceolata</i>		
8 to 10 ft.	2.75	2.50
<i>Gleditsia triacanthos inermis</i>		
8 to 10 ft.	4.25	4.00
1½ to 1½-in. cal.	5.75	5.50
<i>Gleditsia Moraine</i>		
(Plant Patent No. 826)		
6 to 8 ft.	5.50	5.00
8 to 10 ft.	7.75	7.00
<i>Populus nigra italica</i>		
6 to 8 ft. ....	.85	.75
8 to 10 ft.	1.15	1.00
10 to 12 ft.	1.40	1.25
<i>Salix blanda</i>		
8 to 10 ft.	1.90	1.75
1½ to 1½-in. cal.	2.75	2.50
1½ to 1½-in. cal.	3.00	2.75
<i>Salix Niohe</i>		
1½ to 1½-in. cal.	3.00	2.75
1½ to 2-in. cal.	4.50	4.25
2 to 2½-in. cal.	5.25	5.00

ORNAMENTAL TREES

	Each 10 to 19	Each 30 and up
<i>Acer ginnala</i> , multi-stem		
4 to 5 ft.	\$1.75	\$1.50
5 to 6 ft.	2.25	2.00
6 to 8 ft.	3.25	3.00
<i>Cercis canadensis</i>		
5 to 6 ft., B&B	7.00	6.75
<i>Washington Thorn</i>		
4 to 5 ft., B&B	6.25	6.00
5 to 6 ft., B&B	9.25	9.00
6 to 8 ft., B&B	12.75	12.50

THE MONROE NURSERY CO.

Box 665
Monroe, Mich.

Hagenfritz — Since 1847

Phone: Cherry 1-6101

You may wire your order
collect Western Union.

into a small white pebble basin. The plant materials included begonias, yellow and white tulips, pachysandra, a dwarf Japanese maple, cotoneaster, pink and white azaleas, mollis azaleas and a flowering cherry tree.

Meeting Family Needs

Hicks' Nurseries, Inc., Westbury, L. I.; Anton Hren Nurseries, Huntington Station, L. I., and John Kean, Levittown, L. I., combined in an unusual display of cooperative and complete gardening. These three separate exhibits illustrated one manner in which the entire family's needs can be met on an average property. Hicks' Nurseries, Inc., considered the hobby fancier in the family with an area centered around a lean-to greenhouse, coldframe and tool shed complete with cuttings and tools. The plant materials complementing the area were hyacinths, cherry laurel, mountain laurel, cotoneaster, clump birch and an attractive spreading-type American holly.

Anton Hren Nurseries featured an outdoor barbecue patio for the entire family composed of precast concrete paving blocks. The plant materials used were drooping leucothoe, forsythia, a large clump birch, *Taxus media hreni*, azaleas, Carolina rhododendron, weeping cherry, tulips and coleus to flourish after the bulbs.

John Kean featured a children's play area with a precast concrete block patio with a maze design. A sandbox at one end was designed to become a pool as the children grow. The plant material used included Hicks yews, *Azalea kaempferi*, Coral Bell azaleas, bullata hollies, primroses, dogwoods and English ivy.

Naturalistic Garden

John Groenveld, Albertson, L. I., exhibited a large naturalistic garden complete with old tree root stumps, logs, rocks and a waterfall. All of the following plants were used in a picturesque manner: *A Cedrus atlantica*, *Berberis verruculosa*, na-

tive azaleas, tulips, variegated American holly, native rhododendron, flowering quince and drooping leucothoe.

Bulk's Nurseries, Babylon, L. I., featured a garden patio with a fan-shaped facade. The patio was raised, paved with brick and faced with a flagstone wall. The plants that complemented the feature were flowering crab apples and cherries, mountain laurel, slender deutzia, upright taxus, ferns, tulips, daisies and hyacinths.

Panfield Nurseries, Inc., Huntington, L. I., contributed a Japanese garden with plants native to Japan. There was no patio, but a pool fronted with turf was the main focal point. The plant list consisted of fine specimens of *Chamaecyparis obtusa* nana, *Ilex crenata helleri*, *Ilex crenata*, *Pachysandra terminalis*, a Sargent hemlock, Korean boxwood, *Jasminum nudiflorum* and bulbs.

Lewis & Valentine, Greenvale, L. I., had an exhibit that was a miniature of a large Japanese land-



CORKSCREW TREE

(*Salix Matsudana Tortuosa*)

Oriental Horticultural Curiosity

From the Hupeh Province of East Central China. Branches both large and small grow upward with an exotic corkscrew twist.

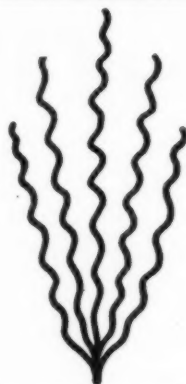
This tree is also known in common parlance as Corkscrew Tree, Corkscrew Willow, or Contorted Hankow Willow.

4 to 5 ft., \$2.50 each, \$25.00 per dozen

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Perry, Ohio



scape. The feature of the garden was a 3-foot waterfall and a pool that represented a large lake. There was an absence of turf areas. In their place were pebbled areas with rock outcroppings. A 25-year-old dwarf pine 18 to 24 inches high attracted attention. Other plants were azaleas, flowering cherries, mountain laurel, rhododendrons, Japanese black pines and white pines.

Modern Effect

Goldberg & Rodler, Hempstead, L. I., staged a garden with a modern flair. A redwood seat wall, with an interesting vertical pleated effect leading up railroad-tie steps to a small raised patio, attracted interest. The lower level consisted of molded concrete blocks set in pebbles. Plant materials included an *Enkianthus campanulatus*, an espaliered apple tree, tubed tulips and Japanese holly.

The Homestead Gardens, Rockville Centre, L. I., displayed a restful garden area with an informal stream and a flagstone patio set in sod as features. The plant materials, forsythia, clump birch, tulips, hyacinths, *Pieris floribunda*, rhododendrons and azaleas, gave a restful feeling to observers.

Port Washington Nursery, Inc., Port Washington, L. I., exhibited a late spring rock garden faced with a slightly geometric flagstone patio and a flagstone wall. Pines, spruces, hemlocks, rhododendrons, flowering crab apples, clump birch, pachysandra, bulbs and rock garden plants completed an attractive corner garden.

Bensch's Florist & Nursery, Huntington, L. I., displayed an attractive indoor garden with a precast concrete block patio complemented by two large bougainvilleas. English ivy, tulips, tubed arborvitae and succulent plants completed this neat little planting.

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deners, Long Island branch, displayed a small colorful garden containing a still-water pool. This garden had a wealth of plant materials, including azaleas, lilies in variety, forsythia, cowslip, junipers, pieris and white pine.

Holly Planting

Holly-by-Golly, St. James, L. I., had a holly display of many species and varieties. Included were named varieties of English, American, Chinese and Japanese hollies. Also included were fine specimens of *Ilex pernyi* and many variegated hollies.

Dauernheim Corp., Wantagh, L. I., exhibited colorful azaleas in a mass display. Wheatley Gardens, Greenvale, L. I., displayed succulent plants, orchids and cut flowers.

The Long Island Lighting Co. displayed lighting methods for outdoor living at night. All of the construction and plant features were illuminated with unique fixtures. The garden contained a pool and a flagstone dining patio. Plants enhanced by the lights were hemlocks, forsythia, Japanese holly, azaleas and rhododendron.

The Nassau county department of parks exhibited a formal display of 1,000 red tulips in four beds with used brick walks and a center fountain feature. The strictly formal garden was bordered with a low, sheared Hicks yew hedge. This display was outstanding because of its simplicity and neatness.

University Entry

The ornamental horticulture students of the State University Agricultural and Technical Institute, Farmingdale, L. I., also displayed an unusual garden. The garden featured a large raised reflection pool surrounded by azaleas and faced with narcissi. The small patio below the pool was complemented by large tubbed azaleas. The beds and pool were of a straight-line construction, all curved lines being contributed by the plants. The plant materials consisted of pieris, mountain laurel, a Hicks yew hedge, two large American arbovitae and many azaleas from a collection owned by the department.

The Nassau county extension service and the ornamentals research laboratory of Cornell University, Ithaca, combined to present an educational exhibit geared to answer gardeners' problems. Information and literature in the form of bulletins were available pertaining to insect and disease pests and other problems the visitors might have wished solved.

SPRING, 1959

A few items in quantity.

Biota aurea nana
Juniper, canaerti
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(Andorra)
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Juniper, Pfitzer, extra good
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Euonymus alatus
Euonymus alatus compactus
Euonymus erectus
Euonymus patens
Euonymus vegetus
Ash, European Mountain
Cornus florida
Cornus rubra
Elm, Chinese
Crab Apple, Flowering
Locust, Honey
Magnolia
Maple, Crimson King
Maple, Norway
Maple, Columnar
Maple, rubrum
Maple, schwedleri

Maple, Silver
Maple, Sugar
Oak, Pin
Prunus Newport
Prunus Thundercloud
Redbud
Sweet Gum, TT, once root-pruned
Tulip Tree
Willow, Thurlow
Almond, Pink
Currant, Alpine
Barberry, Green
Barberry, Red
Barberry, mentorensis
Cotoneaster divaricata
Forsythia
Honeysuckle Bush
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2 1/4" pot .20

3" pot .35

Zone 7

ILEX VA F

An outstanding bright red accent shrub

2 1/4" P

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Truly a superb holly—its captivating dark green foliage having a reddish cast on its new growth, makes a delightful setting for its brilliant red "Self-Fertile" berries that are produced in profusion.

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3" pot .45

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	.25	—	.45	—	ILEX AQUIFOLIUM FERTILIS	
	.25	—	.45	—	ILEX AQUIPERNYI BRILLIANT	
	.20	—	.35	—	ILEX CORNUTA AZUSA	
	.18	—	—	—	ILEX CRENATA CONVEXA (BULLATA)	
	.18	—	—	—	ILEX CRENATA ROTUNDIFOLIA	
	.20	—	.35	—	ILEX VOMITORIA DWARF YAUPON	
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Picturesque large, thick, dark green leaves and brilliant
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 is deep rich green in
 and your sales yard.

Zone 5

ILEX CRENATA ROTUNDIFOLIA

A superb compact growing holly with rich deep green
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 appealing dense habit of growth.

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3 to 3½ ft.	3.00
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NEW BULLETINS

CONTAINER RESEARCH

The research committee of the American Association of Nurserymen has performed a valuable service for the membership by making available the 32-page booklet, "A Compilation of Research Concerned with Nursery Stock Grown in Metal Containers." The contents of the booklet were prepared by K. W. Reisch, department of horticulture, Ohio agricultural experiment station, Wooster. The conclusions of the research available on the subject are presented in readable, concise form in 21 pages, and a bibliography of over four pages guides the reader to further material on the subject. It is a thoroughgoing outline of the situation of container-grown stock today. Copies of the booklet are available to members of the A. A. N. only at \$1 each.

DUTCH ELM BULLETIN

An address delivered by Dr. J. G. Matthyse, Cornell University, Ithaca, N. Y., at the 1957 midwestern shade tree conference has been adapted and published as Cornell Miscellaneous Bulletin 30 under the title An Evaluation of Mist Blowing and Sanitation in Dutch Elm Disease Control Programs.

In the illustrated 16-page bulletin, Dr. Matthyse stresses the primary importance of sanitation in Dutch elm disease control, in which effort is concentrated on destruction of bark beetle breeding material. He emphasizes the secondary role of mist blowing in control programs and the fact that such measures are practically valueless unless formulations, timing and coverage are all correct.

The author gives a history, in text and tables, of control practices in New York state over the past 24 years and cites pertinent facts that have emerged as key factors in a successful control program. Effects of DDT on the trees themselves and on other elm pests are also discussed in the bulletin.

GIBBERELLIN EFFECTS

Originally appearing in Economic Botany, an article entitled "Effects of Gibberellin on Economic Crops," by S. H. Wittwer and M. J. Bukovac, Michigan State University, East Lansing, has been issued as a reprint by the Michigan agricultural experi-

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Woodward Globe	Per 100	Per 1000
1-yr., 2½-in. pots....	\$0.25	\$0.17½
BUXUS, KOREAN		
2-yr., 5 to 6 ins.....	.25	.22½
2-yr., 4 to 6 ins.....	.37½	.25
BUXUS, SEMPERVIRENS		
1-yr., pots, 4 to 6 ins..	.20	.17½
2-yr., pots, 4 to 6 ins..	.22½	.20
2-yr., pots, 6 to 8 ins..	.25	.22½
EUNYMIUS RADICANS		
ERECTUS		
1-yr., pots, 6 to 8 ins..	.17½	.15
1-yr., heavy plants....	.22½	.20
JUNIPER, HETZL, blue		
2-yr., pot, 6 to 8 ins..	.22½	.20
3-yr., in beds, heavy...	.37½	.35
JUNIPER, FEITZERIANA		
2-yr., pots, 6 to 8 ins..	.22½	.20
3-yr., pots, 8 to 10 ins..	.27½	.25
3-yr., T. in beds.....	.37½	.35
MAHONIA AQUIFOLIUM (Holly Grape)		
2-yr., pots, 6 to 8 ins..	.22½	.20
TAXUS CUSPIDATA		
1-yr., pots, 6 to 8 ins..	.20	.17½
3-yr., T. light.....	.37½	..
4-yr., T. heavy.....	.45	..
TAXUS HICKSI		
1-yr., pots, 6 to 8 ins..	.20	.17½
2-yr., T. under lath....	.45	..
VIBURNUM TOMENTOSUM PLICATUM		
2½-in. pots, 6 to 8 ins..	.25	.22½
2½-in. pots, 9 to 12 ins..	.35	.30
WEIGELA VANICEKI		
1-yr., pots, 6 to 10 ins..	.20	.17½
2-yr., 3-in. pots.....	.37½	.25

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ment station, East Lansing. The 43-page booklet reviews the results of American and foreign gibberellin research in recent years and appraises the agricultural utility of the substance. Promising responses produced in woody and herbaceous ornamentals are discussed along with beneficial effects obtained in such crops as beans, corn, cotton, grapes and tree fruits. Many illustrations and tables accompany the text, as well as an extensive bibliography of literature cited.

The authors conclude that gibberellin offers a means of controlling such important plant responses as elimination of dwarfism; reversal of virus stunting; elongation of stems; expansion of leaves; acceleration of flowering in biennials and long-day annuals; promotion of uniformity in growth, flowering and fruiting; increased flower size; reduction or replacement of cold and daylength requirements for growth and flowering, and promotion of normal growth rates at suboptimal temperatures.

TIMBER TREES

Completing the 15 silvical reports on major timber trees, the lake states forest experiment station, maintained by the forest service of the United States Department of Agriculture at St. Paul, Minn., in cooperation with the University of Minnesota, has issued station papers 65, 66 and 67. They cover, respectively, *Populus balsamifera*, balsam poplar; *Acer nigrum*, black maple, and *Thuja occidentalis*, northern white cedar. The reports cover the distribution of the species, habitat conditions, life history from seeding habits to maturity, special features, and races, hybrids and other genetic features.

CONNECTICUT PLANT LIST

"Trees, Shrubs and Vines for Connecticut," bulletin No. 57-9 of the agricultural extension service of the college of agriculture, University of Connecticut, Storrs, prepared by H. O. Perkins, associate professor of landscape architecture at the university, has been reissued. Of about 250 plants described for home landscaping in the 24-page publication, 150, specially identified, are declared of primary importance in the state. Although the bulletin consists chiefly of an alphabetical listing of plants and their features, including mature size, supplementary information is given on culture, landscape uses, plant identification and the common names of plants.

TREE LIST FOR SPRING, 1959

	Per 100	Per 1000	Per 1000 in 10,000 lots
Upright Yew, from seed, several times sheared			
6 to 10 ins., XX	\$65.00		
Scotch Pine			
(2-1), 8 to 12 ins.	12.00	\$60.00	\$56.00
(2-1), 4 to 8 ins.	10.00	45.00	42.50
(2-0), 6 to 10 ins.	8.00	34.00	32.50
* (2-0), 4 to 8 ins.	7.50	24.00	22.00
* (2-0), 3 to 6 ins.	6.00	22.00	20.00
(2-0), 2 to 4 ins.	5.00	16.00	14.50
Scotch Pine, Auvergne, race Noble			
(2-1), 6 to 12 ins.	12.00	60.00	56.00
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5 to 6 ft.	25.00	225.00
6 to 8 ft.	37.50	350.00
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NURSERYMEN'S ASSN.
Box 49, MENTOR, OHIO**

Set Attendance Record at Des Moines Flower Show

An attendance record of 88,700 was set at the Des Moines home and flower show held February 21 to March 1 in the Veterans Auditorium, Des Moines, Ia. Sponsored by the Home Builders' Association of Des Moines, the show featured a model home in a completely landscaped setting of approximately 1,500 square feet.

Eight other garden exhibits, including a spring and fall garden, a rose garden, a model interstate highway rest area and a reproduction of part of the ballroom garden at the Williamsburg governor's palace, completed the major display area. Yale Moeller, landscape architect, Des Moines, was designer of the gardens, plans of which were made available to those attending the event.

A quantity of 14-foot Douglas fir trees, cut last August for the holiday season and preserved for the show in outdoor temperatures, were used in many of the display gardens to give height to the plantings. The auditorium temperature was controlled to 65 degrees Fahrenheit during show hours and 50 degrees during the night. Hundreds of flowering shrubs and trees and 12,000 flowers were used to reproduce a springlike atmosphere.

Spreading cotoneaster, Pfitzer juniper and English ivy were used in the foundation planting along the front of the model home, with pink hyacinths, cyclamens and geraniums providing color. A Sunburst locust was placed to the left of the entrance, and clump birch underplanted with dwarf marigolds formed a corner planting.

Focal point of the outdoor living area at the rear of the home was a pear-shaped, 22x42-foot pool. In the border curving around one end of the pool and in the terrace plantings beside it, azaleas, geraniums, chrysanthemums, hyacinths and tulips were featured, along with a pyramidal linden, Hopa and Bechtel crab apples, a Norway maple, a Moraine locust and a Niobe weeping willow.

Arranged in an unusual circular design in the spring and fall garden

were pink geraniums; red, white and pink tulips; cinerarias; primroses, and white, yellow and bronze chrysanthemums. These were set against a background of Andorra, Pfitzer and green Colorado junipers; Dolgo crab apples, lilacs and deutzias.

A curved white gravel path, edged with sod, led to a brick-paved patio in the rose garden, which utilized a basket-weave redwood fence as background. Eastern red cedar and tall foliage plants against the fence gave height and contrast to the 73 rose-bushes in planter boxes. Cyclamens, cinerarias and white geraniums were used for variety of bloom, and Dolgo crab apples and Froebel spiraea completed the picture.

The model roadside rest area displayed by the Iowa state highway commission was typical of the 40 such areas planned along the interstate highway system in the state. Picnic tables and charcoal grills were featured in a pleasant, landscaped setting.

NEW HAMPSHIRE MEETING

[Continued from page 10]

pre-emergence herbicide, but it should not be used where zinnias are planted.

Late Application Effective

Application of weed killers late in fall when plants are dormant has proved effective for weeds such as chickweed, which makes rank growth in cold weather, Dr. Bing said, and granular materials are good where sprays might injure foliage of crop plants, if they are applied in the growing period.

Pre-emergence sprays have been successful for gladioli, especially in cornel beds, where hand weeding costs would be high, Dr. Bing reported. He further said that peonies present a special weeding problem, as they are difficult to cultivate. Plots treated in December with diuron kept plants clean through the growing season.

It was found that granular forms of these chemicals are safer to use than sprays in the growing period and are especially suitable when applications of sprays might injure leaves of the crop plants.

Diuron worked well on some types of nursery stock when two applications of the crystals were made in June and August, said Dr. Bing, and results showed Simazine had worked well on roses. High rates of application did not seem to endanger the plants.

Dr. Bing also gave an illustrated talk after the banquet in the evening, discussing European horticultural

CUSHION MUMS

Cushion Mums are the top-volume sellers—the best known of the garden types and most readily purchased at the nursery or garden center—spring and fall. Be prepared! Growers and suppliers who are not particular as to variety but want good quality-grown cushion varieties as to color only can purchase at a real saving by ordering at "Collection Prices," all correctly labeled as to variety; shipped when needed. Send for our color-illustrated brochure—it helps you sell.

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Pink Cushion
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PRICES: Rooted Cuttings—COLLECTION RATES

500 R.C.	\$ 27.50
1000 R.C.	52.50
2000 R.C.	100.00

(Minimum order, 500 rooted cuttings.)

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Waldron, Ind.

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TOP-SIZE FIELD PLANTS

\$20.00 per 100 \$180.00 per 1000

Immediate delivery or at outside planting time.

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SHRUBS AND TREES FOR THE SMALL PLACE, by P. J. Van Melle. Hardy deciduous materials for the home grounds. **\$3.00.** American Nurseryman, Chicago 4, Ill.

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NURSERY-GROWN SEEDLINGS

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Nursery
Elmhurst, Mo.

Hugh Stevenson, Prop.

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The price will satisfy.

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QUALITY—SERVICE
Perennials a Specialty.
2559 Mentor Ave. MENTOR, O.

NORTHERN-GROWN STOCK TRANSPLANTS

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3-yr. 2 Stock

	Per 100	Per 1000
Black Hills Spruce		
10 to 12 ins.....	\$25.00	\$200.00
8 to 10 ins.....	18.00	150.00
6 to 8 ins.....	15.00	120.00
Colorado Blue Spruce		
8 to 10 ins.....	18.00	150.00
6 to 8 ins.....	15.00	120.00
Norway Spruce		
8 to 10 ins.....	12.00	100.00
American Arborvitae		
12 to 15 ins.....	18.00	150.00
10 to 12 ins.....	12.00	100.00
8 to 10 ins.....	10.00	80.00

3-YR. SEEDLINGS

Colorado Blue Spruce		
4 to 6 ins.....	4.50	40.00
Norway Spruce		
4 to 6 ins.....	3.50	30.00
6 to 10 ins.....	4.50	40.00
Scotch Pine, Riga		
8 to 12 ins.....	4.00	35.00
6 to 8 ins.....	3.50	25.00

2-YR. SEEDLINGS

Colorado Blue Spruce		
2 to 4 ins.....	3.00	25.00
Norway Spruce		
2 to 4 ins.....	3.00	25.00

HARDY FERNS

Ostrich Plume		
Large clumps	8.00	75.00

Strict grading. Well packed.
Satisfaction guaranteed.
There may be as good—
NONE BETTER.

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L. J. RAMBO'S WHOLESALE NURSERIES
Bridgman, Michigan



ture, principally in Holland and Germany, but including a few nurseries and florists in Belgium, France and Italy.

Separate Meetings

Separate group meetings were held in the afternoon for florists, boxwood growers and nurserymen. Some of the nursery discussion centered around propagation and concerned varieties of boxwood, pyracanthas, holly and other borderline items for New Hampshire.

Some discussion was also heard on roses that might be suitable for hedges. Hardier items are needed for this area than some that are being widely advertised. Rosa roxburghii (chestnut rose) and some of the rugosa species were mentioned as possibilities. Several of these are being tested for hedge purposes at the university horticultural farm.

Issuance of the "Plantsman" from 10 to 12 times a year was regarded as important by the group, and continuance of the publication is considered desirable.

NURSERY STOCK PROMOTION

[Continued from page 18]

wrong tree or shrub or the wrong size. Pruning knowledge is practically nonexistent.

Prof. A. M. S. Pridham and Dr. Arthur Bing, Cornell University, Ithaca, discussed weed killers. A promising new material is Simazine, to be used at the rate of six to eight pounds (actual) per acre. The effect lasts three to four months if the surface crust is not disturbed. This material looks even better than the stand-by recommendation to use eight pounds (actual) of Chloro-IPC granular per acre.

Bedding Plant Varieties

Dan Dowd, of the Long Island Agricultural and Technical Institute, suggested that Long Island bedding stock operators visit some of the 26 seed trials held throughout the year, to keep abreast of the best varieties for customers. He suggested the seed trials of the W. Atlee Burpee Co., at Philadelphia; Harris Seed Co., at Rochester, N. Y.; George J. Ball, Inc., West Chicago, Ill., and Vaughan's Seed Co., Wheaton, Ill. In addition, Vaughan's Seed Co. will also have a test plot at Farmingdale this summer, and Salisbury park, Nassau county, Long Island, will also compare varieties. The best time to see these selections will be in July and August.

Dr. John Cornman, Cornell University, Ithaca, spoke on "Lawn

LANDSCAPE MATERIAL

White Pine, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 8 ft.
Austrian Pine, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 8 ft.
Red Pine, 2 to 3 ft., 3 to 4 ft., 6 to 8 ft.
Norway Spruce, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.
Hemlock, 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.
Dogwood, **White-Flowering**, 5 to 6 ft., 6 to 8 ft., 8 to 10 ft.
Euonymus alatus, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft.
Bayberry, *pensylvanica*, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.

WADE & GATTON NURSERY

Belleville, Ohio

Phone: Butler, TU 3-2191

PIN OAK SEEDLINGS

(*Quercus palustris*)

	Per 100	Per 1000
6 to 12 ins.	\$ 6.00	\$ 55.00
12 to 18 ins.	8.00	75.00
18 to 24 ins.	12.00	100.00
2 to 3 ft.	17.00	140.00
3 to 4 ft.	22.00	190.00

BUR OAK

(*Quercus macrocarpa*)

2 to 3 ft.	17.00	140.00
3 to 4 ft.	22.00	190.00
4 to 5 ft.	30.00	250.00

Finished material quoted on request.

L. C. Gatewood

LEAVENWORTH NURSERIES

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New and Coming Sure-Fire Roses

BINGO

(Plant Pat. No. 1392)
A deep red hybrid tea with grandiflora tendencies. A. R. S. rating 7.9. Suggested retail, \$2.50.

PINK FRAGRANCE

(Plant Pat. No. 1493). A. R. S. 1958, T.6. A many-petaled pink rose with outstanding lustrous foliage. Suggested retail, \$2.50.

Each	Each	Each
1 to 9	10 to 19	20 to 99
\$1.60	\$1.40	\$1.25
	Each 250 and up.	\$1.10

ORDER THESE ROSES FROM ANY OF THE FOLLOWING NURSERIES:

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The Greening Nursery Co.

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Peterson & Dering

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Shenandoah Nursery

Shenandoah, Ia.

Elmer Roses

6708 N. San Gabriel

San Gabriel, Calif.

BEGINNING IN THE NURSERY BUSINESS

By John J. Pinney. 64 p. (1958). \$1.00.
American Nurseryman Chicago 4, Ill.

Weed Control." For crab grass, he recommended postemergence treatments of phenyl mercuric arsonates or disodium or ammonium methyl arsonates. Silvex, 2,4,5-TP, has given good results in controlling chickweed as well as yarrow, but more research is needed.

Oriental earthworms were found in Nassau county last summer. These stink-worms are extremely active throughout the growing season and make a lawn spongy. Three times the grub-proof rate of chlordane has given satisfactory control of these pests.

Louis Pyenson, of the Long Island Agricultural and Technical Institute, reported on insecticides, fungicides and herbicides. He stated that wettable powders frequently require use of agitators. Both nemagon and VC-13 have given good control of nematodes. For grub-proofing, he recommended dieldrin and chlordane, although both aldrin and heptachlor have their place too. For a basic foliage spray, he recommended malathion and methoxychlor with a fungicide, either captan or maneb. Such a "buckshot" spray may also need a miticide or a fungicide for either rust or powdery mildew.

More on Merchandising

Peter Costich, Hicks' Nurseries, Inc., Westbury, and Tim Sherry, East Setauket, presented interesting round-table ideas for sales promotion. They described a 10-tent carnival which was held at Hicks' Nurseries, Inc., Westbury, last year. At first it was set up as a purely demonstrational and educational exhibit, but a great many sales were made at the time. Such promotions require much work. Plans and action must be started at least two months prior to the promotional weekend. Free soil tests, pruning demonstrations, hose and spray applications and the showing of films stimulate such affairs.

On hand must be trained representatives from the manufacturers and a garden center's staff to sell products, with someone to help park cars. There are countless details of staging a setup such as this.

Other suggestions were that the affair be held on two or more days, not holidays, as it might rain on one. Motorized equipment displays should be located well away from the demonstrations, because of the noise. If possible, consider having many items on a consignment basis at such promotional events.

Harvey Gray, of the Long Island Agricultural and Technical Institute, gave an interesting talk on his ob-

BEAUTIFUL PIN OAKS QUERCUS PALUSTRIS

Well-shaped specimens

	Per 10
3 to 3 1/2-in. cal., B&B...	\$400.00
2 1/2 to 3-in. cal., B&B...	300.00
2 to 2 1/2-in. cal., B&B...	225.00
1 1/2 to 2-in. cal., B&B...	150.00
1 1/4 to 1 1/2-in. cal., B&B...	105.00
8 to 10 ft., B&B...	90.00
6 to 8 ft., B&B...	70.00
5 to 6 ft., B&B...	50.00
4 to 5 ft., B&B...	40.00



SEEDLINGS

QUERCUS BOREALIS

(Northern Red Oak)

Quercus palustris (Pin Oak)

	Per 100	Per 1000
4 to 5 ft.	\$50.00	.....
3 to 4 ft.	33.00	\$300.00
2 to 3 ft.	22.00	200.00
18 to 24 ins.	14.00	120.00
12 to 18 ins.	8.50	80.00
9 to 12 ins.	6.50	60.00

On seedlings, packing free—cash with order.

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ARNOLD ARBORETUM INTRODUCTION

Brand-new beauty with golden florets often 2 ins. across — orange throat. This stock is propagated outdoors and may be lined out directly into the field. Get this new beautiful flowering shrub to please your customers.

\$15.00 per 100

\$135.00 per 1000

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WE GROW 5 MILLION SEEDLINGS A YEAR

Price list for spring, 1959.

	SEEDLINGS		1000	1000
	Per 100	Per 1000	Per 10,000	Per 100,000
Scotch Pine (Race Noble)				
(2-0), 2 to 4 ins.	\$3.00	\$11.00	\$11.00	\$10.00
(2-0), 3 to 6 ins.	3.50	18.00	15.00	12.50
(2-0), 4 to 8 ins.	4.00	22.00	20.00	15.00
(3-0), 7 to 14 ins.	4.50	27.50	25.00	22.50
(3-1), 5 to 10 ins.	5.00	35.00	35.00	....
Scotch Pine (East Anglia or West German)				
(2-0), 2 to 4 ins.	3.50	12.00	12.00	10.00
(2-0), 3 to 6 ins.	4.00	20.00	18.00	16.00
(2-0), 4 to 8 ins.	4.50	24.00	22.00	20.00
(3-0), 6 to 24 ins.	5.00	30.00	27.50	25.00
(3-1), 5 to 10 ins.	5.50	35.00	35.00	....

Austrian, Norway, Colorado Blue, Engelmann, Black Hills Spruce and Douglas Fir seedlings and transplants.

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servations of the growing sales of nursery stock in containers. He reported that the development of this type of merchandising is going at a rapid rate on Long Island. Container-grown stock may be better, because it receives more attention than field-grown nursery stock. He suggested a mixture of soil and peat or peat and perlite, plus fertilizers, for growing annuals, herbaceous materials and nursery stock. Growers should experiment until they get good plant response.

Mr. Grey recommended square metal containers. Spacing is important, and it is necessary to minimize the wide fluctuations in temperature of the soil or media. He also recommended winter protection with a mulch of litter or salt marsh hay, but not sawdust, to prevent these fluctuations. A wind barrier and some type of shade are other important considerations.

LANDSCAPE CONTEST

The landscape planting plan for the new Holiday Inn motel, now under construction at Tyler, Tex., will be used as a student design contest problem by 17 advanced students in landscape design at Kansas State College, Manhattan, according to an announcement made recently by John R. Manser, Tex Mex Corp., Dallas, Tex.

Directing the design problem for the students will be Prof. L. R. Quinlan, head of the landscape design department at Kansas State College, and George Fisher, landscape architect, Tyler. The student submitting the best presentation will receive a \$50 award from the Tex Mex Corp., and the winning plan will be used to landscape the motel's grounds. The entries will be judged by a panel selected by the landscape design department of Kansas State College. G. F.

GOING into the nursery and garden center business is James McCauley, Sharon, Pa. The firm will be known as J. McCauley & Son.

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	100	1000	2500
	rate	rate	rate
<i>Euonymus alatus compactus</i>			
8000 2-yr., T.			
9 to 12 ins.	\$0.45	\$0.35	\$0.30
<i>Picea pungens, Moerhelm</i>			
400 Pot grafts	1.25	1.20	...
<i>Taxus cuspidata</i>			
1650 3-yr., T.	.50	.48	.45
<i>Viburnum carlesii</i>			
1800 1-yr., pot grafts	.50	.45	...

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	Per Lb.
Black Walnuts\$0.25
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Concolor Fir\$1.50
Wild Apple (Europe) 1.00
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At these low prices, please include remittance for postage.

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AZALEAS

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Fedora, pink, kaempferi

Herbert, double purple, Gable

Rosebud, double pink, Gable

Thais, red, kaempferi

9 to 12 ins., B&B, \$1.25 each

Mollis, mixed

9 to 12 ins., B&B, \$1.15 each

12 to 15 ins., B&B, 1.25 each

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TREE SEEDS

Conifers

We collect in the Lake States.
Also supply western and European seeds.

IRON MOUNTAIN EVERGREEN CO.

Iron Mountain, Mich.

PLANT PATENTS

The following plant patents were issued recently, according to Rummeler & Snow, Chicago patent attorneys:

No. 1790. Rose plant. To Herbert Robinson, Burbage, Hinckley, England, assignor to Jackson & Perkins Co., Newark, N. Y. A new and distinct variety of rose plant of the large-flowered hybrid floribunda class, characterized particularly as to novelty by the unique combination of vigorous, tall and bushy plant growth; a floriferousness greater than that of the parent variety Pinocchio (plant patent No. 484) and the continuation thereof throughout the entire growing season; unusually long shoots; long-lasting petal quality similar to that of the parent variety Peace (plant patent No. 591), and the distinctive massicot-yellow, lightly overcast with buff yellow, general color tonality of the flowers.

No. 1791. Chrysanthemum plant. To Roderick W. Cumming, Bristol, Conn., assignor to Bristol Nurseries, Inc., Bristol. A new and distinct variety of chrysanthemum plant of the hardy decorative type, characterized particularly as to novelty by its airy grace of plant growth; its healthy, glossy, dark green foliage, which remains on the plant all the way to the ground; its erect, strong and wiry stems; its extremely early period of flower display, and its excellent productivity of large, long-lasting, decorative flowers with the general color tonality of dawn pink occasionally flushed with tangerine orange.

No. 1792. Rosa floribunda plant. To Edward Burton Le Grice, North Walsham, Norfolk, England. A new and distinct variety of Rosa floribunda plant. Special characteristics of the new hybrid rose plant are the perfection of the separate flowers, the abundance of its growth and the large flower heads. The main distinguishing characteristics are that the blooms are unique in color, shape and freedom and that the blooms can open from a tight bud when cut, develop in water and last for a considerable time. The abundant foliage and the strong but bushy growth make it suitable for bedding.

No. 1793. Iris plant. To Robert V. Schreiner, Salem, Ore. A new and distinct variety of iris plant, characterized particularly by the distinctly glistening sheen of the amethyst coloring of the flowers, which are exceptionally large in size and nearly spherical in form; the heavy texture of the blooms, which resists the elements; the large, firm, gracefully cupped standards and semiflaring falls; its height and well-spaced stem branching; its broad foliage, and its ease of propagation.

No. 1794. Rose plant. To Albert J. Restani, San Francisco, Calif. A new and distinct variety of rose plant of the polyantha class, retaining the free habit of bloom that enables its parent variety to supply blooms continuously during all seasons under greenhouse conditions and characterized particularly as to novelty by its true red color that is held without fading until the petals fall; the large number of petals, totaling about twice as many as those of its parent; the better form of the rose as a bud and open flower, and the longer-lasting nature of cut flowers obtained from the plant.

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Transplanted — Top-Quality — Well-Spaced
Bare-Root — Lots of 10 or More

	Each
2 to 3 ft.	\$1.00
3 to 4 ft.	1.25
(25c extra B&B)	
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5 to 6 ft.	3.25
6 to 7 ft.	4.50
7 to 8 ft.	5.50
(50c extra B&B)	

Special quotations on large quantities or row run.
Come to see us for Dogwood requirements.

MORaine LOCUST (Plant Pat. No. 836)

Bare-Root

	Each
	10 to 49
1 1/2-in. cal.	\$13.50
1 3/4-in. cal.	16.50
2-in. cal.	20.00

Twice transplanted.

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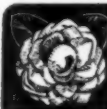
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**SEMME'S
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AZALEAS - CAMELLIAS
and other choice evergreens

Wholesale Catalog SEMMES, ALA.

Wholesale Growers of Broad-Leaved
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POTTED LINERS
Taxus Junipers

B&B sizes to trucks only.
HUMPHREYS LANDSCAPE SERVICE
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**Bamboo, Gardenias,
Figs, Shade Trees**

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P. O. Box 749
Covington, La.

PLANT NOTES HERE AND THERE

By C. W. Wood

Nolinas

For some time I have wanted to write about the lily cousins, nolas, but I know so little about them that I have hesitated until I recently received an interesting letter from a New Mexico correspondent, telling of their economic uses at the hands of southwestern natives. The treatment will be somewhat incomplete, and I hope that it will prompt some of my southwestern friends to give me more information about these interesting plants. It may be added that one reason I know so little about the plants is that those I tried in my experiments were too tender for this severe climate.

The genus, as usually accepted by botanists, is composed of some 20 species, extending from Texas, New Mexico, Arizona and southern California southward. The plants vary in form from low, grassy growths of the Texas and New Mexico forms to trees of 20-foot stature in southern Mexico and Central America. The ones that will be considered here, natives of the southwest, form tufts of narrow, grasslike leaves (hence the common name of bear grass for some kinds) that furnish browse for wild and domesticated animals during long dry periods, because they flourish in sections where precipitation does not exceed 10 to 15 inches annually.

The species of greatest potential importance as an ornamental outside its native range (central Texas), it seems to me, is *Nolina* (not to be confused with *nolana*) *texana*. It makes a tuft of long (to three feet in length, it is said, in fertile, heavy soil), grasslike leaves, from which rises an 18-inch scape in early spring, bearing white, lilylike flowers. Parks records that it "was well known to the early settlers, who used the leaves for thatch material, to make baskets, to tie corn tops and to hang bacon. On the Edwards plateau, where it is most common, it furnishes large amounts of browse during the parts of the year when grass is out of the question."

Another Texan, *N. lindheimeriana*, is spoken of as possessing not a little ornamental value, especially where a small, yuccalike plant is desired. Its long, narrow leaves, to a length of 20 inches, have given it the local name of ribbon grass, and its

18-inch stem of small, yuccalike flowers, followed by black seed vessels, gives it the appeal of a miniature yucca. Coming from eastern Texas, it should be hardy as far north as St. Louis, Mo., at least.

Then, there should be mentioned the so-called bear grass, *N. microcarpa*, which grows naturally on dry plains and slopes from New Mexico and Arizona southward. There it grows to three feet in height, with narrow, grasslike leaves to five feet or more in length and long (to three feet) panicles of small, pale yellow to whitish flowers in spring. I have not seen the plant, but I have corresponded with three or four friends in the southwest who have used it in the home landscape; they tell me it is one of the better plants for foundation planting in the warm lands of little moisture, a fact that is borne out in a picture I have in my files.

The plant has been used to some extent in the domestic economy of

the southwestern natives. For instance, some of the Pueblo Indians use the leaves in basket weaving, and it is recorded that several of the tribes have employed the fiber in making cordage. The Indian name for the plant, *sacahuista*, meaning grass and thorn, describes it better than many of my words could do.

Some Small Columbines

I received a letter inquiring about several small columbines, which I shall try to answer by giving some extracts from a letter I received some time ago from a correspondent who has made a study of the small plants during recent years. I have been somewhat out of touch with these plants of late years; so I am glad that I am able to pass the following information along:

"The plant known in gardens as *Aquilegia reuteri*, which is the same as *A. bertolini*, so far as I can see, is a good plant for the beginner in columbine culture. The color is



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12 to 18 in. .. \$ 7.00	\$ 60.00	3 to 4 ft. \$17.50	\$150.00
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1-yr., 6 to 9 ins.	10.00	80.00
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Forsythia Spring Glory , 6 to 9 ins.	40.00	
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Weigela vanickei , 6 to 9 ins.	80.00	
Viburnum opulus sterile , 4 to 6 ins.	100.00	
Viburnum tomentosum plicatum , 4 to 6.	120.00	
Viburnum burkwoodi , 4 to 6 ins.	150.00	
Viburnum rhytidophyllum , 4 to 6 ins.	100.00	

	Per 100	Per 1000
Viburnum carlesi (Fragrant Snowball),		
9 to 12 ins.	\$250.00	
Ilex rotundifolia , 6 to 9 ins.	120.00	
field-grown, T., 6 to 9-in. spread	230.00	
field-grown, T., 9 to 12-in. spread	400.00	
Ilex microphylla , 6 to 9 ins.	120.00	
Juniperus hetzi , field-grown, T., 6 to 9-in. spread	250.00	
Juniperus depressa plumosa , field-grown, T., 6 to 9-in. spread	250.00	
Euonymus coloratus , 2¼-in. pots	150.00	
Vinca minor , 2¼-in. pots	150.00	
Vinca minor , 1 to 3 leads, suitable for potting	20.00	
Calleryana Pear Seeds (These seeds produce virus-free seedlings on which to propagate pear varieties), \$50.00 per lb.		

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pleasing, and the short-spurred flowers look like a small blue-violet *A. vulgaris*. This is one of the small columbines that have to have lean living if they are to remain small. The plant should be given a lean, sandy, gravelly soil if one wants to keep the plant under a foot. The ethereally lovely *A. scopulorum* needs the same treatment if one expects to keep it at six or eight inches. In fact, it has to be starved in gravel to keep it at all. There seems to be something peculiar about all the really small kinds, including *A. jonesi*, *A. saximontana*, *A. flabellata nana* and *A. glandulosa jucunda*, in that they may grow satisfactorily in one garden, but not so well in another. But one can usually depend upon *A. bertolini*, *A. pyrenaica*, *A. akitensis* and usually the small, pink-flowered *A. rubicunda* to give satisfactory results if they are given a lean, well-drained soil. I think I remember you writing once that the little green and chocolate Siberian, *A. viridiflora*, had little appeal to you. If it is given lean treatment to keep it below a foot, it is one of the most fascinating of the lot to me."

I think a word of caution should be added to my friend's helpful remarks. As nearly all columbines tend to be short lived, provision for their

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Juniperus excelsa stricta , 36 to 40 ins.	2.00
Abelia grandiflora , 22 to 26 ins.	1.00
Cherry Laurel , 3 to 4 ft.	1.50
4 to 5 ft.	1.75
5 to 6 ft.	2.00
Ilex opaca Hume , 4 to 5 ft.	2.00
Ligustrum lucidum compactum , 4½ to 5½ ft.	1.35
Mahonia bealei , 16 to 20 ins., gal. cans	1.00

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frequent renewal should be made; and as renewal is best made by seedage, a new lot should be started yearly. When I was growing dwarf columbines commercially, I kept the different kinds as far apart in the nursery as I could to insure true-to-name seedlings.

Tahoka Daisy

After an absence of many years from my garden, a few plants of the Tahoka daisy (*Machaeranthera tanacetifolia*) were grown last year to renew an old friendship and to enjoy again their splendid cut flowers. The experience of growing them reminded me that neighborhood growers are surely missing a good sales item if they do not stock the plant. When it first became popular a quarter of a century or so ago, I sold it from pots in June when my own stock was in bloom in the garden and found it to be one of the best sellers among the annuals.

It is a plains plant of the composite family, growing naturally from the Dakotas and Montana into Mexico. It is quite at home in the east when given a sunny spot and is able to take a lot of dry weather, making it a natural for the busy gardener. The plants grow to two feet in height, are clothed in divided leaves (if one knows tansy, its specific name, *tanacetifolia*, will tell what it is like), and bear showy daisies to two inches across, with violet-blue rays and yellow centers.

I found that a good way to handle plants for the show garden was to plant fresh seeds in autumn where the plants are wanted; then, I thinned out the plants the following spring to stand about a foot apart. Plants intended for sale were seeded in flats in winter and stacked outdoors to freeze until about April 1, when they were brought inside for germination. When the seedlings were large enough to handle, they were transplanted singly into small pots, transferred later into larger

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Tsuga canadensis

	Per 100	Per 1000
3 to 6 ins., S.	\$3.00	\$20.00
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9 to 12 ins., S.	6.00	50.00
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pots if growth demanded and sold from the pots when the outdoor stock commenced to bloom in June.

Clematis Tangutica

The New Jersey reader who asked about the golden clematis, *C. tangutica*, and most other neighborhood growers as well will, I think, find the plant good property. In fact I should not expect any good clematis (and, certainly, this one is entitled to be put in that class) to remain long in one's possession after the customers see it.

The subject of the present note is a plant of many uses, not the least of them being its value in a cut state for room decoration when it is in the fruiting stage. If one remembers that plants, foliage, flowers or fruits for room decoration and arrangements are the most popular phases of the garden arts at present, the plant's sales potential can be better appreciated. Its yellow lanterns during June are decorative, as are most clematis flowers, and the plants make a pleasing addition to the early summer garden. And then later the gracefully slender branches, carrying tufts of whitish silk, are the crowning glory of the golden clematis. It is easily grown from seeds planted in the fall.

Crambe

I have an inquiry on *crambe* that I find rather difficult to answer, if for no other reason than that the names in gardens, including the botanic gardens from whence most of my seeds have come, are in a hopeless state of confusion. So I shall restrict the remarks to a few general statements.

The genus belongs to the crucifers, being composed of about two dozen species, I believe, though there are many more names, many of them synonyms. They are almost exclusively Old World plants, only one being accredited to this hemisphere (the southern tip of South America), so far as the records indicate. They are for the most part monocarps, as they behaved in my trials, not necessarily biennials, for some of the plants wait three or four years for their first and only flowering; however, their prodigious flower production seems to weaken them so they cannot come back for another effort. For maximum growth, which is when they are most effective, they need a rich soil, preferably one containing much clay, but they give a satisfactory performance even in my light sand. For instance, I once had seeds of a central Asian species from a Soviet botanic garden which grew 10 feet or more (I do not find the

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5 to 6 ft.	6.00	...			
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3 to 4 ft.	4.25	...			
4 to 5 ft.	5.00	...			
Hemlock, Canadian					
2 to 2½ ft.	2.75	2.60			
2½ to 3 ft.	3.50	3.30			
3 to 3½ ft.	4.50	4.30			
3½ to 4 ft.	5.50	5.25			
4 to 5 ft.	6.50	...			
Juniper, Irish					
18 to 24 ins.	1.85	1.65			
2 to 2½ ft.	2.35	2.00			
2½ to 3 ft.	2.85	2.50			
Pine, Austrian					
2 to 3 ft.	3.00	2.75			
Pine, Japanese Black					
2 to 3 ft.	3.00	2.75			
3 to 4 ft.	4.00	3.75			
4 to 5 ft.	5.00	...			
Pine, Scotch					
2 to 3 ft.	2.50	2.25			
Pine, White					
2 to 3 ft.	3.00	2.85			
3 to 4 ft.	4.00	3.80			
4 to 5 ft.	5.50	5.25			
5 to 6 ft.	7.00	6.75			
6 to 7 ft.	8.50	8.25			
Spruce, Black Hills					
2½ to 3 ft.	3.50	3.25			
3 to 4 ft.	4.50	4.25			
4 to 5 ft.	5.75	...			
Spruce, Canadian Blue (<i>Picea canadensis</i>). Same sizes and prices as Black Hills Spruce.					
Spruce, Norway					
18 to 24 ins.	2.00	1.75			
2 to 2½ ft.	2.50	2.25			
2½ to 3 ft.	3.00	2.75			
3 to 4 ft.	3.50	3.25			
Taxus cuspidata					
15 to 18 ins.	3.25	3.00			
18 to 24 ins.	4.00	3.75			
2 to 2½ ft.	5.00	4.75			
Coniferous—Continued:					
Taxus hutfieldi					
15 to 18 ins.	\$.325	\$.300			
18 to 24 ins.	4.00	3.75			
2 to 2½ ft.	5.25	...			
Taxus hicksii					
18 to 24 ins.	3.75	3.50			
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2½ to 3 ft.	6.75	...			
BROAD-LEAVED:					
Boxwood, sempervirens (American)					
18 to 21 ins. B&B.					
specimens	\$2.60	\$2.50			
21 to 24 ins. B&B, spec.	3.25	...			
Barberry, Julianae					
15 to 18 ins.	2.00	...			
18 to 24 ins.	2.75	...			
Elaeagnus fruitlandi					
18 to 24 ins.	2.00	1.85			
2 to 2½ ft.	2.50	2.25			
Eunonymus patens					
18 to 24 ins.	1.60	1.50			
2 to 2½ ft.	2.00	1.75			
2½ to 3 ft.	2.50	2.25			
Ilex convexa (Box-leaved Holly)					
15 to 18 ins.	2.50	2.25			
Ilex crenata microphylla					
18 to 24 ins.	2.75	2.50			
2 to 2½ ft.	3.50	3.25			
Ilex rotundifolia					
15 to 18 ins.	1.50	1.35			
18 to 24 ins.	2.25	2.00			
2 to 2½ ft.	3.00	2.75			
2½ to 3 ft.	3.75	3.50			
Ligustrum lucidum					
15 to 18 ins.	1.35	1.20			
18 to 24 ins.	1.75	1.60			
2 to 2½ ft.	2.25	2.10			
2½ to 3 ft.	3.00	...			
Ligustrum ionandrum					
18 to 24 ins.	1.35	1.20			
2 to 2½ ft.	1.85	1.65			
Magnolia grandiflora					
2 to 3 ft.	2.25	2.00			
3 to 4 ft.	3.25	3.00			
4 to 5 ft.	4.25	4.00			
5 to 6 ft.	6.00	...			
Osmanthus ilicifolius					
18 to 24 ins.	2.35	...			
2 to 2½ ft.	3.00	...			
Rhododendron Hybrids , assorted varieties					
18 to 24 ins.	5.25	...			
Viburnum rhytidophyllum					
5 to 6 ft.	5.50	...			

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NOTE: Ask for quotations on other varieties and sizes in evergreens, also shade and flowering trees.

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Per 100

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8925 Ilex aquifolium	30.00
13,690 Ilex opaca	25.00
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14,412 Ilex crenata	25.00

1-gal.

Container-Grown Plants

3989 Ilex aquifolium, 1-yr.	60.00
136 Ilex aquifolium, 2-yr.	80.00
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2291 Ilex cornuta, 1-yr.	60.00
404 Ilex cornuta, 2-yr.	80.00
5950 Ilex crenata, 1-yr.	60.00
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THE GRAFTER'S HANDBOOK, by R. J.
Garner. 2nd ed. Grafting in detail 260 p. \$5.75
American Nurseryman Chicago 4,

reference at the moment and my memory is faulty) when planted in heavy soil and was not much more than half that in the ordinary garden soil. The plants grow best in full sun and need staking when grown in a windy spot.

Except for the plant usually relegated to the vegetable garden, sea kale (*Crambe maritima*), the species most often found in gardens is *C. cordifolia*, from the Caucasus. In my trials, it could be depended upon to grow to six feet in height and almost as much across when it is displaying its immense, almost naked panicles of small, white crossflowers in June. The plant then makes a most imposing picture. It is easy to grow from seeds and quite hardy here in northern Michigan if the fleshy root is mulched over winter.

Chrysanthemum Charm

Although I have been out of touch with Charm chrysanthemums since 1951 (when I last tried to fit the plants into a northern gardener's scheme of operation and found them lacking for outdoor culture this far north), I still have a fondness for them because of their floriferousness, bright colors and wide range of colors.

As I remember their history, they were reported to be a mutation that appeared in a batch of seedlings of cascade chrysanthemums grown in England from seeds produced in the firm's growing operations in Africa. I do remember there were speculations at the time if seeds produced in the tropics and moved to temperate climates, or vice versa, would induce mutations. Be that as it may, the Charm strain proved to be just that—charming. The plants grew to about two feet in height and close to a yard across in the trials, but I could not induce blooming outdoors in this climate, for the plants were a sodden mass of frozen foliage long before a bit of color showed. However, they were really a sight when they flowered in the cool sash house. I suspect that where they could be flowered outdoors in the far south or in sections where pot-grown chrysanthemums of their size would find a market, they would be a profitable item. It was between seven and eight months from the time of germination of the seeds to flowering in my trials; so one could figure from that when to start them into growth, though shading and lighting might be used to shorten or lengthen that period somewhat. At the time of the trials, the flowers were all single (I suspect they still are, judging from descriptions in current European

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OXYDENDRUM ARBOREUM (Sourwood)	
1000 Collected liners, B&B, 4 to 6 ft.....	\$1.65 each
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seed lists) and came in a truly remarkable range of colors, including pinks, orange, many red shades and yellows, most of them brilliant and clear cut.

A Good Hardy Water Lily

It is heartening for this observer of the horticultural scene to see how rapidly water gardening is spreading. It may be that the gardener has room for no more than a tub, but once he becomes interested in the water lily, he is quite sure to have a tub full (more, if possible) of water plants. And he will want a root of *Nymphaea tuberosa*, the magnolia water lily, in its double-flowered form known as *richardsoni*. This plant has a large root; large leaves (too large, perhaps, for a small tub) and large, double, fragrant flowers.

BANK PUBLICIZES YEWS

The value of the Japanese yew for year-round landscape beauty was pointed out in recent advertising of the La Salle National bank, Chicago, Ill., in Chicago newspapers. Featuring a drawing of a B&B specimen, the advertisement emphasized that the Japanese yew is a fine landscape investment, despite its relatively high cost, and urged homeowners to start saving for the proper landscaping of their grounds.

PURCHASED recently by Montebello, Calif., for a civic center site was a 19-acre tract of land that included the Howard & Smith Nursery, Montebello.

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P. O. Box 116, Bridgman, Mich.

Phone: HOpkins 5-5522

RED RASPBERRIES

	100	1000
Latham, Trans.	\$10.00	\$80.00
1-yr., No. 1	8.00	65.00
Durham (Fall Bearing), Trans.	10.00	80.00
1-yr., No. 1	8.00	65.00
Indian Summer (Fall Bear- ing), Trans.	10.50	85.00
1-yr., No. 1	8.50	70.00

BLACK RASPBERRIES

	100	1000
Blackhawk (New), No. 1 tips	\$10.00	\$75.00
Cumberland, Logan, Morrison, Dundee, No. 1 tips	6.00	45.00

GRAPEVINES

	10	100	1000
Concord, 2-yr., No. 1	\$2.00	\$15.00	\$100.00
Fredonia, 2-yr., No. 1	2.20	16.00	120.00
Van Buren, 2-yr., No. 1	2.40	18.00	.....

BLUEBERRIES

	Each	10	100	1000
Rancocas, Rubel, Jersey 2-yr., 9 to 12 ins.	\$0.40	\$3.50	\$32.50	\$300.00
3-yr., 12 to 18 ins. ....	.55	5.00	47.50	450.00
4-yr., 18 to 24 ins. (Fruit Buds) .....	.75	7.00	67.50	650.00
5-yr., 24 to 36 ins. (Fruit Buds)	1.00	9.00	87.50	.....

Quantity prices upon request. All stock ready for immediate or future shipment.

GOOSEBERRIES

	10	100
Houghton, 3-yr., heavy	\$3.50	\$30.00
2-yr., No. 1	2.50	20.00

RED RHUBARB

	10	100
Canada Red, No. 1 Div.	\$4.00	\$35.00
McDonald, No. 1 Div.	3.50	30.00

VICTORIA RHUBARB

	100	1000
1 1/2 to 2 ins.	\$10.00	\$80.00
1 to 1 1/2 ins.	7.50	60.00
3/4 to 1 in.	6.00	45.00
1/2 to 3/4 in.	4.50	30.00

ASPARAGUS

	100	1000
Washington, 3-yr., heavy	\$4.50	\$30.00
2-yr., No. 1	3.00	20.00
1-yr., No. 1	2.10	14.00

HORSERADISH

	10	100
Cuttings, 4 to 6 ins.	\$1.00	\$4.50
Whole Roots	1.50	7.50

Legal Decisions

MORTGAGE LAW

When a nursery is maintained on land on which a mortgage is about to be given the parties should consider carefully the possible need for a clause clearly settling the question whether the mortgage is intended to cover nursery stock growing or to be grown upon the premises.

In a Texas case, the court of civil appeals decided that on foreclosure of a mortgage it must be assumed, in the absence of proof to the contrary, that the parties did not intend that the mortgage cover stock growing for the purpose of ordinary commercial sale in the course of the mortgagor's nursery business. (196 S. W. 626.) The court said that the evidence indicated that the parties to the mortgage recognized that the growing stock's chief value consisted in its prospective removal and sale. It would not only have no value if permanently left in the ground, but would tend to impair the value of the land as a whole.

Earlier Opinion

On hearing an earlier suit involving the same mortgage the court had said: "If the evidence justified the conclusion that at the time the mortgage was executed it was contemplated by the parties that the mortgagor should have the right each year to sell the nursery stock without accounting to the mortgagee for the proceeds of such sales, and that this right has been exercised by the mortgagor continuously," [it should be concluded by the court] "that it was the intention of the parties that the nursery stock placed or grown on the land was to be regarded as personal property and not subject to the mortgage."

WARRANTY WAIVED

When nursery stock is sold under a warranty that it is sound, but the buyer sets the trees out, knowing that they are unsound, does he thereby waive a claim based upon a theory of breach of warranty?

Yes, according to a decision by the Nebraska Supreme Court (93 N.W. 920). The court said that where the buyer of fruit trees claimed that they were delivered to him in poor condition and that the roots were rotten, but admitted that nevertheless he set the same out and undertook to make them grow,



**HOW ABOUT LETTIN'
OZARK NURSERY
SUPPLY THIS SEASON'S
SHRUBS, TREES
AND VINES.**

HERE'S JUST A SAMPLE

- Fruit Trees — Standard and Dwarf
- Small Fruits — Grapes and Berries
- Ornamental and Shade Trees
- Flowering Shrubs
- Evergreens — Broadleaves and Conifers
- Roses

**WRITE for OZARK'S
WHOLESALE
CATALOG
NOW!**

**OZARK NURSERY CO.
TAHLEQUAH, OKLAHOMA**



Evergreens B&B
Write for price list.
GILMORE PLANT & BULB CO.
Julien, N. C.

BLUE GRASS LAWN SEED

Pure Kentucky-grown and handled with care at:

WALNUT LAWN FARM

Rt. 2 Lexington, Ky.
Prices in our classified ad under LAWN GRASS

SEEDS

Native and imported seeds for northern nurserymen.

K. J. BRADEN SEED CO., INC.

Box 427
Rochester, N. H.

PEAR SEEDLINGS

(Pyrus calleryana)

WHITEROCK NURSERIES

Box X Crockett, Tex.

CANNED PLANTS

Build profits with Wight's container-grown evergreens. Wide assortment, including lilies, Magnolias, Camellias, Pyracantha. Ask for wholesale list.

Wight NURSERIES CAIRO, GA.

SPECIALS

We have a surplus in the following. These liners are very nice and have a very fibrous root system. No better liners can be found.

ILEX CRENATA ROTUNDIFOLIA

	100	1000
6 to 8 ins.	\$12.00	\$110.00
8 to 12 ins.	15.00	140.00

JUNIPERUS CHINENSIS PFITZERIANA

	100	1000
6 to 8 ins.	\$12.00	\$110.00
8 to 12 ins.	15.00	140.00

Write for complete catalog.

BLACKWELL NURSERIES

Semmes, Ala.

his conduct in thus accepting the trees constituted a waiver of the express warranty as to quality.

The court said: "Defendant had inspected the stock. We think it was his duty to take some steps to notify plaintiff that the quality was unsatisfactory, if such were the case, and that the stock would not be received. We cannot reconcile his statement that the trees, when he first saw them, were rotten so that the roots broke off, with his further testimony that he planted them the next spring and cared for them, apparently expecting them to grow. At any rate, having elected to keep them and to exercise acts of ownership over them, he waived any objection as to their quality." A. L. S.

LANDSCAPE MEN'S LIEN

A Missouri law provides for the filing and enforcement of a nurserymen's and landscapers' lien against premises improved by them, but the law specifically provides:

"Such lien shall be enforceable only against the property of the original purchaser of such plants unless the lien is filed against the property prior to the conveyance of such property to a third person."

The landscaping was done for a housing development company before lots were sold, but no lien had been filed. The Kansas City, Mo., court of appeals decided that the lien was valid as against the development company but not against the purchaser of the lots sold before the lien was filed. (318 S.W. 2d 519.)

A. L. S.

GRAND opening was held recently at Conard's Garden Center, Okemah, Okla. Manager of the new enterprise is Audrain Biddy.

DECIDUOUS FLOWERING SHRUBS

Specimen Plants

Red-Leaved Barberry, 24 to 32 ins.
Green-Leaved Barberry, 20 to 30 ins.

Forsythia Lynwood Gold, 5 to 6 ft.
Forsythia Spring Glory, 5 to 6 ft.

Spiraea vanhouttei, 36 to 45 ins.

Weigela Eva Rathke, red, 40 to 45 ins.

Almond, pink, 35 to 38 ins.

Philadelphus grandiflorus, 58 to 68 ins.

These are not ordinary plants by any means. Having been properly spaced, well pruned, irrigated, fertilized and cultivated, they are ready for any landscape job. 75¢ B&B or 50¢ B.R. F.O.B. our farm.

BIG RIVER NURSERY

Dundee, Miss.

Phone 572R4, Tunica Exchange

PINK DOGWOOD LINERS

Silver Maple, Hall's Honeysuckle, Flowering Peach, Forsythia, Crab Apple, Fruit Trees, Poplar, Privet.

Write for trade list.

FLOWER CITY NURSERIES

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TREE FARMERS

1958 crop seed of Grand Fir and Douglas Fir from choice Christmas tree areas.

Abies grandis, \$3.50 per lb.
Pseudotsuga taxifolia caesia, \$9.00

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FOREST SEEDS OF CALIFORNIA

Since 1952

P. O. Box 561
Davis, Calif.

Native coniferous seed for direct seeding and forest nurseries.

WAX LIGUSTRUM

	Each
15 to 18 ins.	\$0.60
18 to 24 ins. ....	.75
24 to 30 ins.	1.00
30 to 36 ins.	1.50

All full, heavy plants

GARDENIAS

18 to 24 ins. ....	.60
24 to 30 ins. ....	.75
30 to 36 ins.	1.00

Fortunei and Mystery Stricta Nana

12 to 15 ins. ....	.60
15 to 18 ins. ....	.75

POOLE BROS. NURSERY

Phone: Glenmora, PI 8-3155
LeCompte, La.

CRAB APPLES FOR AMERICA

By Donald Wyman

63-page report of survey by American Association of Botanical Gardens and Arboretums

Information on breeding, propagation and culture. All the species and botanical varieties known to be growing in North America are listed, with all available information about the size and color of their flowers and fruits, date of origin, natural habitat, introducer or originator and sources where grown today.

Price, \$2.00, postpaid.

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CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary

304 MITAU BUILDING

SACRAMENTO 14, CALIF.

LOS ANGELES CHAPTER

The February 25 meeting of the Los Angeles chapter of the California Association of Nurserymen met at Henry's restaurant, Arcadia. Carl Zanger, Perry's Plants, Montebello, member of the board of directors, introduced the guests, who included Mr. and Mrs. Ishizu, Sunnyslope Gardens, San Gabriel; Harvey Johnson, president, National Cactus Society, and Mrs. Johnson; Ralph Klages, president, Orange County chapter, C. A. N.; Bill Schoenfeld and Stan Taylor, Germain's, Inc., Los Angeles; Bill Cayle, Rex Hardware & Garden Supply, Huntington Park, and Mrs. Cayle; Stuart Bone, Town & Country Nursery, Whittier, and Cal Reed, Jack Reid and William Churchill, Standard Clay Products, Glendora.

First to speak to the group was James Perry, president, C. A. N., who talked about the "Plant a Tree" campaign. Next, Otto Martens, Deigaard Nurseries, Monrovia, conducted a plant forum, introducing many new plants. William Adams, of the Los Angeles Times, then spoke to the chapter, explaining about the cooperative advertisement that will appear in the newspapers for the Can-Can Carnival promotion in April.

Introduced by the program chairman, Chuck Vogels, Chuck's Nursery, Covina, was the speaker of the evening, Joe Berger, H. V. Nootbaar & Co., Pasadena. In his talk, "How To Get Better," he stressed points of better salesmanship, such as character, loyalty and honesty, as excellent ways to hold old customers and add new.

Richard Meadows, Sec'y.

MONTEREY BAY CHAPTER

At the February 19 meeting of the Monterey Bay chapter, California Association of Nurserymen, held at the Chuck Wagon restaurant, Salinas, 30 members and guests were present when President E. B. Stone, E. B. Stone & Son, Salinas, called the meeting to order, at 9:30 p. m. and welcomed Joseph Solomone, Solomone & Hoy, landscape nurserymen, Carmel, and Jack Wick, assistant executive secretary of the C. A. N.

After the minutes were read and corrected, the chapter passed the motion to adopt the scholarship proposal drafted by the board of directors and read by Bruce Douglass, Douglass Nursery, Santa Cruz. According to the proposal, the chapter will provide \$200 yearly to aid a student majoring in ornamental horticulture at the California State Polytechnic College, San Luis Obispo. The chapter's fund for the scholarship will be financed by voluntary contributions from regular, affiliate and associate members and by raffles of merchandise. The awardee student will be chosen by the college, subject to the chapter's approval, and members of the chapter will make known available work for the student to further aid him financially.

A report of the northern California institute held at the University of California at Davis, was read

by Sherrill Ellsworth, E. B. Stone & Son. Adding to the report, Mr. Ellsworth told of the effective talk given by R. H. Sciaroni, farm adviser of San Mateo county, "A Dynamic Approach Is Needed in the Nursery Business," in which Mr. Sciaroni warned of impending higher costs, higher taxes and soil shortages that will be a part of the otherwise wonderful future that awaits the "dynamic nurseryman."

Ben E. Roth, Alladin Nursery, Watsonville, then opened a discussion on the new bureau of nursery service, addressing Mr. Wick with his queries. Mr. Roth feels a clarification is needed on the ruling regarding dead and/or dying bare-root stock, as inspectors in various counties regard the material differently. Mr. Wick asked Mr. Roth and Louis Olave, Hollister Garden Shop, Hollister, a chapter director and past president, to write the office at once concerning this problem.

Mr. Wick, speaker of the evening, opened his remarks by congratulating the chapter on its scholarship proposal and citing the need in the industry for trained personnel. He then pointed out the advantages and benefits of membership in the state association by telling of four indi-

Your customers expect you to sell only the best. Do it with Stribling's choice variety of trees and watch your volume increase. Fruit trees . . . shade trees . . . flowering trees . . . all grow more profits for you when they are Stribling's Growing Quality Trees—products of 48 years of selective development in one of California's largest, most respected nurseries.

Stribling's
NURSERIES, Inc.

Write for free Wholesale Price List today.

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Randolph 2-4106

vidual problems in which the association helped the members, saving them a vast amount of money. Mr. Wick also mentioned the Can-Can Carnival advertising promotion, informing the group that the San Diego chapter is leading the chapters in the project.

The board of directors' meeting followed.

Clayton G. Pleimann, Sec'y.

TRI-COUNTY CHAPTER

The February 26 meeting of the Tri-County chapter of the California Association of Nurserymen was held at the Ventura's Women's Center, Ventura, and was called to order at 7:30 p. m. The minutes of the previous regular meeting and the board of directors' meeting were read before the guests were introduced. There were 33 persons in attendance.

A question raised to the board of directors as to why they voted to stand opposed to the minimum wage and fair employment practices bills was answered by board members, and there was no further discussion.

Walter Barrows, Griffin & Morgan, Santa Barbara, secretary of the chapter, was named delegate to the C. A. N. directors' meeting that was held at Los Angeles, March 31, inasmuch as Harry Stribling, the chapter's director, would have retired from Kallman's Garden Nursery, Santa Barbara, prior to that date.

A slide-illustrated program by Mr. and Mrs. Ralph Curtis ended the meeting.

Walter S. Barrows, Sec'y.

SEQUOIA CHAPTER

The Sequoia chapter of the California Association of Nurserymen met February 27 at Walt's cafe, Eureka, with Ron Kausen presiding. All of the members decided to participate in the Can-Can Carnival advertisement promotion, and in a discussion concerning the rhododendron week program the first week of May, member nurseries agreed to participate. Committees were appointed for both events. Before the meeting was adjourned, colored slides of rhododendrons were shown.

Christine Kemp, Sec'y.

LAMMERTS HEADS GERMAIN'S ROSE GROWING

The appointment of Dr. Walter E. Lammerts to head the expanded rose research and hybridizing operations of Germain's, Inc., at Livermore, Calif., has been announced by Walter R. Schoenfeld, Jr., president of the seed firm.

ALMOST READY FOR YOUR INSPECTION



OUR NEW 1959-1960 List of



Old names you already know —
new names you will want to know —
we'd be pleased to have YOUR NAME
on our mailing list!



WEEKS WHOLESALE ROSE GROWER



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O. L. WEEKS

ONTARIO, CALIF.

ROSES

Top-quality, northern California, field-grown, patented and standard bush and tree roses. Write for list and prices.

ELMER ROSES

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SAN GABRIEL, CALIF.

—FINEST QUALITY—

LINERS

AZALEAS—HOLLIES
RHODODENDRONS—ROSES

DESCANSO DISTRIBUTORS, INC.

Wholesale Growers

12492 Pipeline Ave. Chino, Calif.

Dr. Lammerts, who is internationally known as a hybridizer, started his career in 1935, developing several commercial peach varieties that would bear good crops despite warm California winters. He also served on the staff of the University of California at Los Angeles, where he developed the research in ornamental horticulture. While there he carried on an extensive program of ornamental shrub breeding, which resulted in the development of two new

thornless pyracanthas and the popular mountain lilacs, Mountain Haze and Sierra Blue. In addition he was responsible for the origination of a new series of New Zealand tea plants, including the double Snow White and Ruby Glow.

Early in his career the development of the Charlotte Armstrong rose made him world famous. Not only has this variety proved to be unusually well adapted to American gardens, but because of its genetical

JAPANESE MAPLE

(*Acer palmatum*)

These seedlings are the same as we have used for years as understock for our named varieties. They are ready for grafting now!

Quick sellers in containers, too. Plant them in clumps of three—your customers can't resist their fresh green foliage.

New low prices:	Per 100	Per 1000
18 to 24 ins.	\$23.00	\$200.00
12 to 18 ins.	18.00	150.00
6 to 12 ins.	13.00	100.00

VIBURNUM CARLESI

Bushy, field-grown plants are loaded with flower buds. Your customers find this shrub interesting the year around. Fragrant, light pink flower clusters in spring; gray-green foliage turns brilliant red in fall.

2 to 3 ft.	\$1.25
1½ to 2 ft.	\$1.10

IMMEDIATE DELIVERY. Air Mail, Write or Phone Your Order Today!



P.O. Box 343
San Jose 3, Calif.
Phone: CYpress 3-8171
Nurserymen and Breeders of
Woody Flowering Plants

background, it has become the parent of many other famous rose varieties. His subsequent introductions include the unique Descanso Pillar and the All-American Rose Selections winners, Chrysler Imperial, Queen Elizabeth, Golden Showers and Starfire.

CAN-CAN PUBLICITY

A special announcement April 2 on the nation-wide television and radio program, "Queen for a Day," sponsored that day by Germain's, Los Angeles, will open the Can-Can Carnival, the group merchandising campaign of the California Association of Nurserymen, according to a news item in a recent C. A. N. Bulletin. This announcement will tell the public of the co-operative efforts of the nurserymen and the special sales advantages for customers patronizing member nurseries during the promotion April 3 to 10.

HEADS C. OF C. COMMITTEE

J. Awdry Armstrong has been named chairman of the agricultural committee of the Los Angeles chamber of commerce. President of Armstrong Nurseries, Inc., Ontario, he succeeds F. R. Wilcox, general manager of Sunkist Growers.

A member of the chamber's agricultural committee since 1950, the new presiding officer has served as vice-chairman since 1955. He is past president of the Ontario chamber of commerce and has served the nursery industry as 2-time president of the California Association, as president of the American Association of Nurserymen, and member of All-America Rose Selections. He also served as the executive chairman of the California international flower show in 1957 and 1958.

CALIFORNIA NOTES

The United States forest service has warned tree owners and pest-control operators that the ips beetles, also known as pine engraver beetles, have multiplied dangerously. According to the report made by Charles A. Connaughton, regional forester, the hot, dry autumn of 1958 raised the population enormously, and the state's pine woods are now full of them. In the spring they will come out of hiding. They damage all kinds of pines, and control by spraying is difficult if at all possible. Tree owners are advised to clean up all pine debris so the beetles which are still in hibernation can be destroyed. The Weather Modification Co.,

ROSES

Including:

Aztec
Fashion
Kordes Perfecta
Pink Peace

Write for list and prices.

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ROSES



Wholesale only, but featuring a complete list of Hybrid Teas, Climbers and Floribundas, including all the A.A.R.S. Award Winners.

Send for our new catalog

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MONTEBELLO, CALIF.
Phone: Parkview 11-300

Jan de Graaff's

OREGON BULB FARMS
P. O. Box 512
GRESHAM, OREGON

Lilies

Daffodils

QUALITY LINERS

Write for our catalog listing over 450 varieties.
See our ad in the March 15 issue, on page 27.

MITSCH NURSERY
Aurora, Ore.

Write for List Today

H & S Personality Roses
Bred for American Gardens
HOWARD & SMITH, INC.
Montebello, Calif.



OUR SPRING SPECIALS

Prepaid to your city.

ROEDING'S QUALITY



FRUIT TREES

Grown in decomposed granite soil, where the 49ers panned gold. Firm buds, strong fibrous root systems. Minimum order, 10 per variety.

APPLES, 1/2-in. cal., 55c; 5/8-in. cal., 60c

Red Delicious
Red Gravenstein
Red Rome Beauty

Yellow Delicious
Yellow Newtown Pippin

APRICOT, 1/2-in. cal., 60c; 5/8-in. cal., 65c

Tilton on Apricot
Tilton on Marianna 2624

CHERRY, 3/8-in. cal., 60c; 1/2-in. cal., 70c; 5/8-in. cal., 75c

Bing on Mazzard

NECTARINE, 1/2-in. cal., 55c; 5/8-in. cal., 60c

John Rivers

PEACHES, 5/8-in. cal., 50c; 1/2-in. cal., 55c; 5/8-in. cal., 60c

Cardinal Nectar
Elberta Redglobe

Kim Early Elberta

PEAR, 5/8-in. cal., 50c; 1/2-in. cal., 55c; 5/8-in. cal., 60c

Beurre Hardy on French

Beurre Hardy on Quince

PRUNE, 5/8-in. cal., 50c; 5/8-in. cal., 60c

Coates 1418 on Marianna 2624

POMEGRANATE, 5/8-in. cal., 50c; 1/2-in. cal., 55c

Wonderful

ROYAL WALNUT SEEDLINGS

Our own introduction—a cross between eastern and northern California Black Walnut—more resistant to disease and a stronger grower than California Black seedling.

5/8-in. cal., 35c; 1/2-in. cal., 45c;

5/8-in. cal., 40c; 1/2-in. cal., 50c.

ROSES

Grown in San Francisco Bay Area on hardy Multiflora root stock. Easy to sell—not too large—not too small. Minimum order, 10 per variety.

PATENTED BUSH ROSES

Chrysler Imperial, No. 1, 1 1/2

Circus, No. 1 1/2

Fashion, No. 1, 1 1/2

First Love, No. 1 1/2

Fusilier, No. 1, 1 1/2

Gold Cup, No. 1, 1 1/2

Goldilocks, No. 1, 1 1/2

Helen Traubel, No. 1 1/2

Isobel Harkness, No. 1 1/2

Ivory Fashion, No. 1, 1 1/2

Jimmy Cricket, No. 1, 1 1/2

Linda Porter, No. 1 1/2

Mojave, No. 1, 1 1/2

New Yorker, No. 1 1/2

Nocturne, No. 1 1/2

Peace, No. 1, 1 1/2

Pinocchio, No. 1 1/2

Queen Elizabeth, No. 1, 1 1/2

Starfire, No. 1, 1 1/2

Vogue, No. 1 1/2

White Bonquet, No. 1, 1 1/2

White Knight, No. 1 1/2

PATENTED CLIMBING ROSES

Golden Showers, No. 1, 1 1/2

Peace, No. 1, 1 1/2

Blaze, No. 1 1/2 (10 to 99), 47c

Blaze, No. 1 1/2 (10 to 99), 47c

Blaze, No. 1 1/2 (10 to 99), 47c

Blaze, No. 1 1/2 (10 to 99), 47c

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Blaze, No. 1 1/2 (10 to 99), 47c

Blaze, No. 1 1/2 (10 to 99), 47c

TREE ROSES

Bare-root, 3-year-old, strong, bushy heads, straight heavy stems. No. 1 grade, \$3.75

Medium grade, \$3.25

Circus, No. 1, medium

Fusilier, No. 1, medium

Gold Cup, No. 1, medium

Ivory Fashion, No. 1, medium

Linda Porter, No. 1, medium

Love Song, No. 1, medium

Mme. Henri Guillot, No. 1, medium

Peace, No. 1, medium

Niles, Calif.

Established 1865

250 or more ROSES or FRUIT TREES, or combination of both, shipped PREPAID, no charge for packing.

Write air mail for quotations on larger quantities.

Wholesale Rose Price List sent air mail upon request.



94th YEAR

George C. Roeding, Jr., President

which has the contract in Santa Clara county, places a value of \$900,000 on each inch of rainfall that it adds to the area by cloud seeding and other up-to-the-minute methods of increasing rainfall. The county has agreed to pay the firm a minimum of \$17,000 for its work and up to \$34,000, if it is agreed that a certain amount of increased rain has fallen on the seeded areas. The water is used to fill percolation dams that furnish underground water for wells for domestic and industrial uses as well as for agricultural irrigation.

Spring classes for commercial spray control operators at San Mateo junior college, San Mateo, include meetings on Tuesday evenings for courses on soils; on Wednesday evenings, pest control, and on Thursday evenings, landscape gardening. The attendance this year exceeded that of previous years. The college charges a fee of \$1 per course. Veterans pay no fees.

The Horticulture Seminar (an organization of graduates of the courses in horticulture at the San Mateo junior college) held its annual banquet and award-giving meeting at the Carriage House at Millbrae February 26. The speaker of the evening was Dr. Julio Bortol-

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Avery H. Steinmetz

PORTLAND 15, OREGON

Paul E. Van Allen

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Suggest you phone our office, BElmont 5-3113, or wire us for stock you are needing.

Quality Stock

CONIFERS AND BROAD-LEAVED
EVERGREENS
SHADE AND FLOWERING TREES
FRUIT TREE SEEDLINGS
FRUIT TREES
DECIDUOUS SHRUBS
VINES AND BULBS
PORTLAND ROSES
NURSERY SUPPLIES

Write for our Catalog

lazzo, president of the college, whose address was titled "Not by Bread Alone."

Burglars entered the offices of the West Coast Nurseries, Palo Alto, and broke into desks, files and a safe. They got nothing for their efforts.

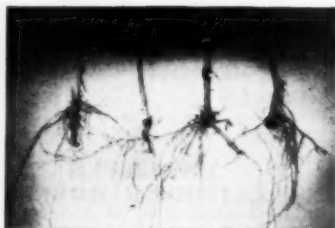
Roses, Inc., will hold its annual convention at San Francisco, September 25 to 29. The headquarters will be at the Sir Francis Drake hotel. On the first day will be a meeting of the board of directors; on

September 26 and 27 there will be tours of the rose ranges and the rose nurseries in the bay area, and on the following days there will be talks on rose-growing problems and plant sales, as well as the usual business meetings. The annual banquet will be held the evening of September 28, and the newly elected board of directors will hold a meeting in the morning of the last day.

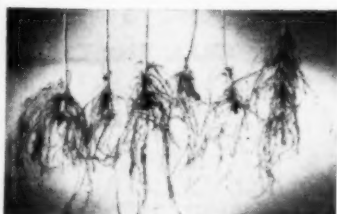
Landscape architect Willa Carmack discussed Japanese landscap-

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ing adaptable to California conditions at the Menlo-Atherton Newcomer's Club February 24.

A \$15,000 program for landscaping the islands on Page Mill road in the Stanford University industrial park was to start in March. Palo Alto city officials who have approved the funds for the work report this project will make the park one of the most outstanding landscaped areas in any industrial park in the nation. Other lands owned by the university are being subdivided for residential areas. The land may not be sold but is leased for 99 years to developers.

Norvell Gillespie, horticultural expert and publicist, has been appointed public relations director for the 1959 California (Oakland) garden show. Mr. Gillespie is a former manager of the San Mateo floral fiesta and subsequently has been active in advertising and all phases of publicity relating to horticultural projects and materials.

The new North Beach public library, which has not yet been opened to the public, was raided by vandals, and many dollars' worth of newly planted shrubs and larger plants were removed.

Anthony Laurillar, who has called on nurserymen in all parts of the state with peat moss and fertilizers, ended his individually operated business and merged with the James Grain Co., San Jose. He took with him some distributorships, and by merging them with some of the new firm handles, he will greatly expand the materials that he has to offer. He will also confine most of his activities to the San Francisco area.

The Los Altos Nursery donated 59 flats of stock seedlings for planting in the new parking plaza at Los Altos. This free area will provide room for several hundred cars. It is planted with trees, and many large ones that were in the area before it was paved have been saved. The stocks will supplement the other plantings and will be cared for by the city park department employees.

The first African violet show on the San Francisco peninsula was held at Redwood City March 4, sponsored by the Peninsula Saintpaulia Society.

W. B. B.

U. C. L. A. APPOINTMENT

Robert M. Endo, plant pathologist formerly with the United States Department of Agriculture, has been named assistant professor and assistant plant pathologist at the University of California, Los Angeles. It is believed that his reputation as a

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Trees and Shrubs. Fruit Trees,
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Fine-quality, two-year plants
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Washington-grown, 2-yr., \$1.70
each; \$1.45 each per 100. Named
grafts in red, white, pink, purple
and variegated colors. Also: 1-yr.
yellow varieties, \$2.45 each; \$2.20
each per 100. 2-yr. yellow varieties,
\$4.00 each. Alice Harding, 1-yr.,
\$3.75 each; 2-yr., \$6.00 each.

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E. C. MORAN, Stanford, Mont.

cereal pathologist will do much toward his development of a state-wide turf grass disease control program, according to John T. Middleton, chairman of the department of plant pathology, U. C. L. A.

Born at Mountain View, Calif., Mr. Endo attended schools in Pennsylvania and was awarded a 4-year scholarship to Temple University, Philadelphia, where his training was interrupted by army service. He was graduated from Rutgers University, New Brunswick, N. J., with honors in 1950. His graduate work in plant pathology was done at the University of Illinois, Urbana, where he has been working since as a U. S. D. A. researcher.

PLAN CENTENNIAL GARDEN

Joseph Klupenger, Klupenger Nursery and Klupenger Greenhouses, Portland, has been chosen by Eddie L. Boatwright, manager of the "International Garden of Tomorrow" (a feature of the Oregon Centennial Exposition) to act as chairman of the group coordinating for the garden.

Other members of the committee are Robert Snodgrass, president, Oregon Association of Nurserymen; Ted Knapp, Ted Knapp Greenhouses; Larry Underhill, Portland landscape architect; Robert Hastings, Bob Hastings Greenhouses and president of the Oregon Flower Growers' Association; Mrs. Florence Gerke, landscape architect, Portland, and Mrs. Erma Burris.

Chairman Klupenger called a meeting of the committee plus other nurserymen, florists and growers of the state interested in the garden, February 23 at the Portland Wholesale Nursery Co., Portland, for the purpose of outlining all the plans for the garden.

About 50 were in attendance as Ed Erickson, of the Portland park bureau, explained the needs of the garden and urged everyone's help and cooperation. Lists of the plant needs are being given to nurserymen of the state, and each is being asked to let Chairman Klupenger or others of the committee know what can be supplied and in what quantities. Material is being received either on a loan or donation basis. Plants donated will become part of a permanent garden to be established after the exposition closes in late summer.

Labor will be needed between the dates of March 1 and June 9. Each nurseryman is being asked to state the time he or his employees can give to the project. Local transportation [Concluded on page 114]

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Forms for May 15 issue will close Friday, April 24.

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MAIL YOUR ORDER NOW FOR
rooted cuttings of kurumes and Pericats.
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Immediate delivery.
Budded hardy kurumes, Pericats and indicas, for forcing or outdoor planting.
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Lining-out \$ 4.50 \$ 40.00

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Heavy stock.

9 to 12 ins. \$24.00 \$200.00

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Blueberries, red Raspberries, black Raspberries, Grapevines, Rhubarb, Asparagus, Horseradish and Gooseberries. Refer to our priced ad on page 90.
Krieger's Wholesale Nursery, Bridgman, Mich.

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No. 1 ¼-in.

suckers cal. up

Per 1000 Per 1000

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Latham, Taylor, Durham .. \$55.00 \$65.00

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Hardy, well-rooted, northern-grown and

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heavy suckers cal. up

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Per 100 Per 1000
No. 1 tips\$4.25 \$38.00
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TUBEROUS-ROOTED BEGONIAS
Large double Camellia-flowering, 8 colors.
Per 100 Per 1000

Extra large size, 2½-in.\$16.00 \$150.00
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1½ to 2-in. 6.00 50.00

Special, 100 bulbs, 15 each, red, scarlet, pink and yellow, 10 each, white, orange, salmon, copper. Labeled separate, with pictures. Size 2½-in. up, \$16.25; 2 to 2½-in., \$13.75; 1½ to 2-in., \$9.25; 1½ to 1½-in., \$6.25.
50 bulbs, mixed, 2 to 2½-in., \$7.00.

Double fimbriata (Carnation), 1½ to 2-in., 5 colors.

Picotee, two tones, rose and white; 1½ to 2-in.

Marmorata, double white with red edge; 1½ to 2-in.

Beaton de Rose (Rosebud), salmon-rose; 1½ to 2-in.

Pendula, Hanging Basket type, 5 colors; 1 to 2-in.

Multiflora, 4 varieties or mixed, 1-in. up. All varieties, \$12.50 per 100, \$115.00 per 1000.

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Rooted cuttings, 3 to 4 ins.
\$10.00 per 100, \$70.00 per 1000.

These plants are lifted bare-root, fresh from our nurseries here; dipped in mud, packed in wet moss and shipped postage or express collect.

Send check or money order. No C.O.D.
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2-yr., bed-grown, 4 to 6 ins., bushy, \$15.00 per 100, 50 plants minimum order, 500 or more, 10 per cent discount; 6000 or more, 20 per cent discount. Cash with order. Lightweight, expert packing, free.

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BUXUS SEMPERVIRENS WELERI
Per 10 Per 100
4 to 6 ins.\$2.50 \$20.00
6 to 8 ins. 4.00 35.00
3-yr., 10 to 16 ins. . . . 5.00 50.00

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Buxus sempervirens (Boxwood), good plants from open field beds, \$6.00 per 100, \$50.00 per 1000.

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CLEMATIS VINES

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Each, 10 100
Gypsy Queen, dark purple\$0.50 \$0.45
Lawsoniana, sky-blue50 .45
Lady Betty, Balfour purple50 .45
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FIELD-GROWN DIVISIONS

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100\$ 5.00
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5000 or more, per 1000 35.00

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Bonfire, bronze Pompon
Chris Columbus, excellent dbl. white
Delight, double golden yellow
Malinda Brown, dbl. lavender-pink
Nocturne, dark red Pompon
Orchid Spoon, pink Spoon var.
Pathfinder, Carnation-flowered yellow
Red Velvet, dbl. velvety dark red
Sept. Wine, wine-red
Pink Opal, delicate pink

LOW CUSHIONS
Cody, very low lavender-pink
Gen. Marshall, variegated red
Grace, clear white
Honeycomb, orange Button
Joan Helen, magenta, rose-red
Lomona, clustered golden yellow
Nanook, cream-white
Orange Cushion, brilliant orange
Purple Cushion, very striking purple
Red Gold, gold with red streaks
Santa Claus, bright red
Minimum 25 of a variety. For additional varieties, send for price list.

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THE NEWEST IN GARDEN MUMS

1958 and 1959 All-America Mum selections winners.
Write for price for these
NATIONALLY ADVERTISED
and **NATIONALLY PUBLICIZED**
AAMS winners.

THE CONRAD-PYLE CO.
West Grove 220, Pa.

GUIDE TO BETTER GARDEN MUMS
Print your name on postal card today.
NEWEST, BEST SELLING VARIETIES
63 best varieties selected from hundreds.
MOST PROFITABLE FLOWERS GROWN
Thousands visit us, our 27th year.

EARLY ORDER DISCOUNTS
Save hardship by growing the best ever.
FARM OF PASCHKE, NORTH EAST, PA.

HARDY CHRYSANTHEMUMS
We are growing 75 varieties of Chrysanthemums in the open field. Over 100,000 field-grown clumps available, at \$12.00 per 100, \$100.00 per 1000.

WALTER GARDENS
R. R. 2 Zeeland, Mich.

FLORETUM COLORFUL GARDEN MUMS
Bred for early blooming, frost tolerance, winter hardiness. There is no substitute for truly hardy, colorful garden Mums. Ask for trade list.

PRAIRIE SOUTHWEST FLORETUM
Fall River, Kan.

BETTER GARDEN MUMS
Rooted cuttings or 2½-in. peat pots.
List on request. Many new varieties.
FAIRVIEW NURSERY, Coon Rapids, Ia.

GARDEN MUMS
Write today for America's top list.
THE JOSEPH F. MARTIN CO., INC.
P. O. Box 189 Painesville, O.

HARDY GARDEN MUMS
Strong rooted cuttings, \$6.00 per 100, \$50.00 per 1000. Send for list of 60 good varieties.
THON'S PERENNIAL GARDENS
25 W. Golf Rd. Arlington Heights, Ill.
Phone CL 3-3184

DELPHINIUMS

DELPHINIUMS
Our climate favors Delphinium production. Heavily rooted Pacific Coast Hybrids: Black Knight, Blue Bird, Blue Jay, Camellard, Galahad, Guinevere, Percival and Summer Skies. Also, Belladonna and Bellamosum available. Large 1-yr. field-grown clumps. Not refrigerated. Delivery late March and April, after frost. Packaging free. Each, 85c, in lots of 25 per variety only. Or reserve container plants, 55c each, to be picked up at nursery in April; any quantity. Usual terms.

WHITE FLOWER FARM
Litchfield, Conn.

DOGWOODS

CORNUS FLORIDA RUBRA
(Pink Flowering-Dogwood)

Each, per 100
5 to 6 ft.\$ 4.00
6 to 8 ft. 6.00
8 to 10 ft., extra heavy 10.00
10 to 12 ft., extra heavy 20.00

CORNUS FLORIDA
(White Flowering-Dogwood)

5 to 6 ft. 2.50
6 to 8 ft. 3.00
8 to 10 ft., extra heavy 6.00
10 to 12 ft., extra heavy 10.00
(B&B, 75c per tree.)

VOYTERSHARK FARM NURSERIES
Corner of Naugatuck Ave. and
West Rutland Rd.
Milford, Conn.
Phone TRinity 4-3498

CORNUS FLORIDA RUBRA (1-YR.)
(Pink Flowering Dogwood)

F.O.B. 10 100 1000
6 to 12 ins., bare-root . \$ 4.50 \$40.00
12 to 18 ins., bare-root . 5.50 50.00
18 to 24 ins., bare-root . 8.00 75.00 \$650.00
24 to 30 ins., bare-root . 10.00 90.00 \$850.00

FLOWER CITY NURSERIES
Tallman Boyd, Owner
Route 3 McMinnville, Tenn.

DOGWOOD
Cornus florida
20,000 1-yr., 8 to 12 ins. \$ 4.50 \$ 35.00
understock 5.00 45.00
20,000 2-yr., 8 to 12 ins. 6.50 60.00
20,000 2-yr., 8 to 12 ins. 9.00 85.00
20,000 2-yr., 8 to 12 ins. 14.00 130.00

PETER BROUWER'S NURSERIES
24 Lester St. New London, Conn.

DOGWOOD
1900 white-flowering, 4 to 5 ft.\$1.95
1250 white-flowering, 5 to 6 ft. 2.95
1450 white-flowering, 6 to 7 ft. 4.00
1600 white-flowering, 7 to 8 ft. 5.00
700 white-flowering, 8 to 10 ft. 7.00

The very best in quality, nursery-grown Dogwood. You pick them. Phone 395.
WHERRY'S NURSERY, St. Marys, W. Va.

EUONYMUS

EUONYMUS ALATUS COMPACTUS
(Dwarf-winged Euonymus)
Each, 100 1000 2500
6000 2-yr., heavy, 7 to 9 to
12 ins.\$0.45 \$0.35 \$0.30

THE COTTAGE GARDENS
Nick I. W. Kriep Harold E. Hicks
2707 W. St. Joseph St. Lansing 17, Mich.

EUONYMUS ALATUS COMPACTUS
2-yr., tr. 9 to 12 ins., \$30.00 per 100,
\$250.00 per 1000.

C. HOOGENDOORN
413 Turner Road Newport, R. I.

EVERGREENS, Liners

QUALITY ROOTED CUTTINGS,
HEAVILY ROOTED Per 1000
Taxus cuspidata, 7 to 8 ins.\$ 85.00
Taxus cuspidata comp., 7 to 8 ins. 100.00
Taxus browni, 7 to 8 ins. 100.00
Taxus hicksii, 7 to 8 ins. 100.00
Taxus sieboldi, 7 to 8 ins. 100.00
Taxus andersonii, 7 to 8 ins. 100.00
Taxus hatfieldi, 7 to 8 ins. 100.00
Taxus intermedia, 7 to 8 ins. 95.00
Taxus brevifolia, 6 to 8 ins. 100.00
Taxus hunnewelliana, 7 to 8 ins. 95.00
Thuja pyramidalis comp., 6 to 8 ins. 85.00
Thuja, American, green, 6 to 8 ins. 85.00
Thuja woodwardii (globe), 6 to 8 ins. 90.00
Juniperus hetszi, blue, 6 to 8 ins. 95.00
Juniper, Andorra, 6 to 8 ins. 90.00
Juniper, Von Ehron, 6 to 8 ins. 90.00
Juniperus sabina, 6 to 8 ins. 90.00
Ilex convexa, 4 to 6 ins. 70.00

Shipping charges and packing free, if cash accompanying order.

LINCOLN NURSERIES
R. D. 2 Grand Rapids 4, Mich.

EVERGREENS, Liners—Continued

POTTED LINERS			
2 1/4-in. pots	Each	100	1000
Taxus, Adams, 1-yr.	\$18.00	\$170.00
Taxus, Adams, 2-yr.	24.00	220.00
Taxus andersoni, 1-yr.	18.00	170.00
Taxus andersoni, 2-yr.	24.00	220.00
Taxus andersoni, 3-yr.	35.00	325.00
Taxus browni, 1-yr.	18.00	170.00
Taxus browni, 3-yr.	TT	35.00	325.00
Taxus capitata, 1-yr.	18.00	170.00
Taxus capitata, 2-yr.	23.00	220.00
Taxus cuspidata, 1-yr.	17.00	160.00
Taxus cuspidata, 2-yr.	22.00	210.00
Taxus cuspidata, 3-yr.	TT	35.00	325.00
Taxus cuspidata, 4-yr.	TT	42.00	400.00
Taxus hicksi, 1-yr.	18.00	170.00
Taxus hicksi, 2-yr.	23.00	220.00
Taxus hicksi, 3-yr.	TT	35.00	325.00
Taxus hicksi, 4-yr.	TT	45.00	425.00
Taxus hunnewelliana, 1-yr.	18.00	170.00
Thuja globosa, 1-yr.	19.00	180.00
Thuja globosa, 2-yr.	25.00	240.00
Ilex convexa, 1-yr.	19.00	180.00
Ilex hetzi, 1-yr.	19.00	180.00
Ilex rotundifolia, 1-yr.	18.00	170.00
Ilex rotundifolia, 3-yr.	35.00	325.00
Ilex stokesii, pat. No. 887, 1-yr.	25.00	225.00	
ROOTED CUTTINGS			
Taxus, Adams, upright	\$0.09	\$0.98
Taxus andersoni08	.07
Taxus browni08	.07
Taxus cuspidata08	.07
Taxus hicksi09	.08
Taxus hunnewelliana08	.07
EVERGREEN SEEDLINGS			
Scotch Pine, 2-yr., 2 to 4 ins.	\$2.50	\$12.50
Scotch Pine, 2-yr., 3 to 6 ins.	4.00	20.00
Scotch Pine, 2-yr., 4 to 8 ins.	5.00	25.00
Austrian Pine, 2-yr., 2 to 4 ins.	3.00	12.50
Austrian Pine, 2-yr., 3 to 6 ins.	5.00	25.00
Red Pine, 2-yr., 2 to 4 ins.	4.00	20.00
Red Pine, 2-yr., 3 to 6 ins.	5.00	25.00
Douglas Fir, 2-yr., 2 to 4 ins.	4.00	20.00
Douglas Fir, 2-yr., 3 to 6 ins.	7.00	35.00
Colorado Spruce, 3-yr., 2 to 4 ins.	4.00	20.00
Colorado Spruce, 3-yr., 3 to 6 ins.	7.00	35.00
Colorado Spruce, 2-yr., XX, 3 to 6 ins.	10.00	50.00

TERMS: No charge for packing, 25 per cent with order, balance C.O.D. 250 of a variety at 1000 rate. Special quotations on large orders.

HEASLEY BROS. NURSERY
Box 218, R. D. 1 Greensburg, Pa.

EVERGREENS			
ROOTED CUTTINGS	Per 100	Per 1000	
Arborvitae woodwardi	\$0.09	\$0.08
Arborvitae pyramidalis, 6 to 8 ins.10	.09
Juniper, Pfitzer, 6 to 8 ins.11	.10
Juniperus hetzi, 6 to 8 ins.11	.10
Juniper, Andorra, 6 to 8 ins.11	.10
Juniper, Swedish, 6 to 8 ins.11	.10
Taxus cuspidata, 6 to 8 ins.09	.08
Taxus capitata (leaders), 6 to 8 ins.14	.12
Taxus hicksi, 6 to 8 ins.09	.08
Taxus browni, 1-yr.13	.12
1-yr.			
Arborvitae woodwardi17	.16
Arborvitae pyramidalis17	.16
Taxus cuspidata20	.18
Taxus hicksi20	.18
2-yr.			
Arborvitae woodwardi, 8 to 10 ins.25	.23
Arborvitae pyramidalis, 10 to 12 ins.27	.25
Taxus cuspidata, 8 to 10 ins.30	.28
Taxus hicksi, 8 to 10 ins.30	.28
Juniperus hetzi, 8 to 10 ins.30	.28
Euonymus alatus, 12 to 15 ins.30	..

GRAFTED SPRUCE, \$1.25 each.
Koster Blue Spruce Moerheim Blue Spruce
GRAFTED JUNIPERS Per 100 Per 1000

Juniperus canaertii	.....	\$0.55	\$0.50
Juniperus burkii	.....	.55	.50
Juniper, Dundee	.....	.55	.50
Juniperus keteleeri	.....	.55	.50

50 of a variety at 100 rate. 300 of a variety at 1000 rate. Write for quotations on lots of 2500 or more.

DRAKE'S NURSERIES
G-4342 Branch Rd.
Flint 6, Mich.

HEAVILY ROOTED CUTTINGS			
Arborvitae, 5 to 8 ins.: American, woodwardi (globe), \$3.00 per 100, \$75.00 per 1000.			
Juniperus, 6 to 8 ins.: Communis depressa, Andorra, plumosa, glauca, hetzi, hibernica, \$3.00 per 100, \$75.00 per 1000.			
Taxus, 6 to 8 ins.: Cuspidata, cuspidata nana, intermedia, hicksi, hatfieldi, \$9.00 per 100, \$85.00 per 1000.			
Baltic Ivy, 6 to 8 ins., 100, \$7.00; 1000, \$65.00.			
1-yr., partially shaded frames well-rooted, sturdy; 5 to 1 ins.			
Juniperus hetzi glauca, Taxus, cuspidata, hicksi, hatfieldi, 100, \$13.00; 1000, \$120.00.			
2-yr., from frames, 6 to 10 ins.			
3-yr. Taxus cuspidata, \$32.00 per 100, \$300.00 per 1000.			
50 of a variety at 100 rate; 300 of a variety 1000 rate.			

Terms: Cash with order, or 1/4 deposit and balance at time of shipping. Free packing. NEIDEL'S NURSERY AND GREENHOUSE
Mtd. R. D. 4 Oil City, Pa.
Phone at Oil City 76251

EVERGREEN LINERS AND CUTTINGS

POT-GROWN STOCK			
Stock from 2 1/4-in. pots	Each	100	1000
Arborvitae pyramidalis, 1-yr.	\$0.26	\$0.24
Arborvitae pyramidalis, 2-yr.30	.28
7 to 9 ins.30	.28
Juniperus, Armstrongs, 2-yr., 7 to 9 ins.30	.28
Juniperus glauca hetzi, 1-yr.26	.25
6 to 7 ins.26	.25
Juniperus glauca hetzi, 2-yr.50	.28
7 to 9 ins.30	.28
Taxus hatfieldi, 2-yr., 5 to 6 ins.30	.28
Taxus intermedia, 2-yr., 7 to 9 ins.30	.28
Taxus columnaris, Adams, 2-yr.30	.28
5 to 6 ins.30	.28
Taxus hicksi, 2-yr., 6 to 8 ins.30	.28
Taxus andersoni, 2-yr., 6 to 8 ins.30	.28
Taxus cuspidata, 2-yr., 6 to 8 ins.30	.28
Taxus media, 2-yr., 6 to 8 ins.30	.28
Euonymus alatus compactus, 2-yr.22	.20
Boxwood, Korean, 2-yr., 3 to 4 ins.22	.20
Buxus sempervirens, 2-yr.22	.20
4 to 5 ins.22	.20
HEAVY ROOTED CUTTINGS			
From flats, growing outside in lath house.			
Boxwood, Korean, hardy, 3 ins.	\$0.09	\$0.08
Boxwood, sempervirens, 3 ins.09	.08
Juniperus glauca hetzi, 6 ins.12	.12
Arborvitae elegantissima12	.12
Taxus hicksi, 5 to 6 ins., ready12	.12
Taxus intermedia, 5 to 6 ins., ready12	.12
Taxus cuspidata, 5 to 6 ins., ready12	.12
Taxus andersoni, 5 to 6 ins., ready12	.12
Taxus media, 5 to 6 ins., ready12	.12
Taxus hatfieldi, 4 to 5 ins.12	.12
Taxus browni, 4 to 5 ins.12	.12
Taxus capitata fastigiata, 4 ins.12	.12
Euonymus erectus, 4 to 5 ins.09	.08
Euonymus alatus compactus09	.08
5 to 6 ins.09	.08
TERMS: Packing and boxing free, 3 per cent discount for cash with order.			
250 plants of each variety at 1000 rate.			
MIAMI NURSERY CO. Tipp City, O.			
EVERGREENS, LINERS			
3 and 4-yr., twice transplanted, 50 at 100 rate.			
Globe Arborvitae, 8 to 10 ins.	\$30.00	
Globe Arborvitae, 8 to 10 ins.	30.00	
Arborvitae, dark green: 10 to 12 ins.	30.00	
Pyramidal Arborvitae, 8 to 10 ins.	30.00	
Juniperus fastigiata, 10 to 12 ins.	25.00	
Andorra Juniper, 8 to 10 ins.	30.00	
Juniperus stricta, 8 to 10 ins.	30.00	
Pfitzer blue Juniper, 8 to 10 ins.	30.00	
Pfitzer green Juniper, 8 to 10 ins.	25.00	
Juniperus hibernica, 8 to 10 ins.	25.00	
Juniperus helleri, 1-yr. grafts	65.00	
Juniperus canaertii, 1-yr. grafts	65.00	
Juniperus glovia, 1-yr. grafts	65.00	
Juniperus burkii, 1-yr. grafts	65.00	
Juniperus keteleeri, 1-yr. grafts	65.00	
Retinospora plumosa aurea, 8 to 10 ins.	35.00	
Taxus cuspidata, 8 to 10 ins.	30.00	
Taxus hicksi, 8 to 10 ins.	30.00	
Taxus hatfieldi, 8 to 10 ins.	30.00	
Taxus capitata, 6 to 8 ins.	30.00	
Taxus densiformis, 8 to 10 ins.	30.00	
Douglas Fir, 8 to 10 ins.	30.00	
Juniperus hillii, pot grafts	50.00	
Juniperus canaertii, pot grafts	50.00	
Juniperus glovia, pot grafts	50.00	
Juniperus burkii, pot grafts	50.00	
Shrub and tree liners list on request.			
Growers, processors and dealers in quality nursery and greenhouse products, grown in northern Indiana and southern Michigan.			
VAUGHAN'S NURSERY & GHSE. CO. 15910 Cleveland Rd., R. 2 Granger, Ind.			
TAXUS CAPITATA SEEDLINGS			
2-yr., 3 to 6 ins.	Per 100	Per 1000
3-yr., 6 to 12 ins.	\$10.00	\$ 30.00
POTTED LINERS			
2 1/4-in. rose pots		Per 100	Per 1000
Taxus media Adams	\$24.00	\$220.00
Taxus media andersoni	20.00	180.00
1-yr., 4 to 6 ins.	24.00	220.00
2-yr., 6 to 12 ins.	20.00	180.00
Taxus media browni	20.00	180.00
1-yr., 4 to 6 ins.	25.00	230.00
2-yr., 6 to 10 ins.	20.00	180.00
Taxus media hatfieldi No. 18	20.00	180.00
1-yr., 4 to 6 ins.	25.00	230.00
2-yr., 6 to 10 ins.	25.00	230.00
Taxus media hatfieldi No. 24	25.00	230.00
1-yr., 4 to 6 ins.	20.00	180.00
2-yr., 6 to 10 ins.	20.00	180.00
Taxus media hicksi	20.00	180.00
1-yr., 4 to 6 ins.	20.00	180.00
2-yr., 6 to 12 ins.	24.00	220.00

(Continued in next column)

(Continued from previous column)

Taxus media hunnewelliana	.....	20.00	180.00
1-yr., 4 to 6 ins.	.....	20.00	180.00
Taxus intermedia	.....	24.00	220.00
1-yr., 4 to 6 ins.	.....	24.00	220.00
2-yr., 6 to 12 ins.	.....	20.00	180.00
Taxus media kelseyi	.....	20.00	180.00
1-yr., 4 to 6 ins.	.....	20.00	180.00
Taxus media Moon's columnaris	.....	20.00	180.00
1-yr., 4 to 6 ins.	.....	20.00	180.00
Taxus media thayerae	.....	20.00	180.00
1-yr., 4 to 6 ins.	.....	24.00	220.00
2-yr., 6 to 12 ins.	.....	20.00	180.00
Taxus cusp. vermealeni	.....	20.00	180.00
1-yr., 4 to 8 ins.	.....	22.50	200.00
Taxus media wardi	.....	20.00	180.00
1-yr., 4 to 6 ins.	.....	22.50	200.00
Taxus media wiesleyana	.....	20.00	180.00
1-yr., 4 to 6 ins.	.....	20.00	180.00
Taxus media wymanii	.....	22.50	200.00
1-yr., 4 to 6 ins.	.....	20.00	180.00
Juniperus horizontalis plumosa	.....	20.00	180.00
1-yr., 4 to 6 ins.	.....	20.00	180.00
Juniperus communis depressa aurea	.....	20.00	180.00
1-yr., 6 to 10 ins.	.....	20.00	180.00
Juniperus glauca hetzi	.....	20.00	180.00
1-yr., 4 to 6 ins.	.....	20.00	180.00
Juniperus chin. Nelson	.....	22.50	200.00
1-yr., 4 to 6 ins.	.....	22.50	200.00
Juniperus chin. pfitzeriana	.....	20.00	180.00
1-yr., 4 to 6 ins.	.....	20.00	180.00
2-yr., 6 to 10 ins.	.....	24.00	220.00
Thuja occ. Douglas Golden	.....	20.00	180.00
1-yr., 4 to 6 ins.	.....	20.00	180.00
Thuja occ. elegantissima	.....	20.00	180.00
1-yr., 4 to 6 ins.	.....	20.00	180.00
Thuja occ. hetzi Winter Green	.....	20.00	180.00
1-yr., 4 to 6 ins.	.....	20.00	180.00
Thuja occ. pyramidalis	.....	20.00	180.00
1-yr., 4 to 6 ins.	.....	20.00	180.00
Thuja occ. woodwardi	.....	20.00	180.00
1-yr., 4 to 6 ins.	.....	20.00	180.00
FIELD LINERS			
Taxus media Adams	.....	35.00	325.00
3-yr., TT, 8 to 12 ins.	.....	35.00	325.00
Taxus media andersoni	.....	35.00	325.00
3-yr., TT, 6 to 12 ins.	.....	35.00	325.00
Taxus media browni	.....	35.00	325.00
3-yr., TT, 8 to 12 ins.	.....	35.00	325.00
Taxus cuspidata	.....	35.00	325.00
3-yr., TT, 8 to 12 ins.	.....	35.00	325.00
Taxus media hatfieldi No. 18	.....	35.00	325.00
3-yr., TT, 6 to 10 ins.	.....	35.00	325.00
Taxus media hicksii	.....	35.00	325.00
3-yr., TT, 6 to 12 ins.	.....	35.00	325.00
Taxus media hunnewelliana	.....	35.00	325.00
3-yr., TT, 6 to 12 ins.	.....	35.00	325.00
Taxus intermedia	.....	35.00	325.00
3-yr., TT, 6 to 12 ins.	.....	35.00	325.00
Taxus media Moon's columnaris	.....	35.00	325.00
3-yr., TT, 6 to 12 ins.	.....	35.00	325.00
Taxus media thayerae	.....	35.00	325.00
3-yr., TT, 6 to 12 ins.	.....	35.00	325.00
Taxus media wardi	.....	40.00	350.00
3-yr., TT, 6 to 10 ins.	.....	40.00	350.00
Juniperus horizontalis plumosa	.....	35.00	325.00
2-yr., TT, 6 to 10 ins.	.....	35.00	325.00
Juniperus horizontalis Bar Harbor	.....	35.00	325.00
2-yr., TT, 6 to 10 ins.	.....	35.00	325.00
Juniperus glauca hetzi	.....	30.00	275.00
2-yr., TT, 6 to 12 ins.	.....	45.00	400.00
3-yr., TT, 8 to 12 ins.	.....	30.00	275.00
Juniperus (Irish) fastigiata	.....	32.50	300.00
2-yr., TT, 6 to 12 ins.	.....	32.50	300.00
Juniperus chin. Nelson	.....	32.50	300.00
2-yr., TT, 6 to 12 ins.	.....	30.00	275.00
3-yr., TT, 8 to 12 ins.	.....	40.00	350.00
Thuja occ. elegantissima	.....	30.00	275.00
2-yr., TT, 6 to 12 ins.	.....	30.00	275.00
Thuja occ. hetzi Winter Green	.....	30.00	275.00
2-yr., TT, 6 to 12 ins.	.....	30.00	275.00
Thuja occ. pyramidalis	.....	30.00	275.00
2-yr., TT, 6 to 8 ins.	.....	30.00	275.00
Thuja occ. wareana (Siberian)	.....	30.00	275.00
2-yr., TT, 6 to 8 ins.	.....	30.00	275.00
Thuja occ. woodwardi	.....	30.00	275.00
2-yr., TT, 4 to 8 ins.	.....	30.00	275.00
3-yr., TT, 6 to 8 ins.	.....	40.00	350.00

EVERGREEN LINERS

POTTED LINERS	Each, 100	1000
Pfitzer Juniper	\$.21	\$0.18 1/2
Burk Juniper, 2-yr.	..22 1/2	..20
Woodward Globe Arborvitae	..18 1/2	..16
Pyramidal Arborvitae	..19 1/2	..17
Dark green American Arb.	..19 1/2	..17
Hetz glauca Juniper	..20	..17 1/2
Berckmans' Biota aurea	..20	..17 1/2
nana, 2-yr.	..20	..17 1/2
Armstrong Pfitzer Juniper,	..21	..18 1/2
2-yr.	..20	..17 1/2
Taxus media	..20	..17 1/2
Taxus andersoni	..20	..17 1/2
Taxus columnaris	..20	..17 1/2
Taxus brownii	..20	..17 1/2

ROOTED CUTTINGS, in lath

house, ready now.

Each, 100	1000
Pfitzer Juniper	..12
Pyramidal Arborvitae	..11
Woodward Globe Arb.	..10
Dark green American Arb.	..11

TERMS: Cash with order. Free packing.

300 plants of a variety at 1000 rate.

VOGE NURSERY

New Lebanon, O.

ROOTED CUTTINGS

Each, 100	1000
Taxus cuspidata	\$.10
Taxus hicksii	..10
Taxus capitata	..12
Juniperus glauca hetzi	..08
Juniperus pfitzeriana compacta	..10
Juniper, Andorra	..08
Thuja occ. American	..09
Thuja occ. woodwardi	..09
Ilex convexa	..10

1-YR. BEDDED LINERS

Each, 100	1000
Taxus cuspidata	..18
Taxus hicksii	..20
Taxus capitata (top)	..20
Juniperus glauca hetzi	..16
Juniper, Andorra	..16
Thuja occ. American	..16
Thuja occ. woodwardi	..16

PINE SEEDLINGS

Scotch, 3-yr., 4 to 6 ins.	2.50	15.00
Scotch, 3-yr., 6 to 10 ins.	3.00	25.00
Scotch, 3-yr., 10 to 15 ins.	4.00	35.00

25 per cent books order. 2 per cent for cash. 300 at 1000 rate.

F. D. HALL & SONS NURSERY

R. D. 4 Butler, Pa.

EVERGREEN SEEDLINGS

Scotch Pine, 2-yr.	100	1000
French D'Auvergne, 4 to 8 ins.	\$.50	\$20.00
French D'Auvergne, 5 to 10 ins.	6.00	25.00
Spanish Sierra Guad., 4 to 8 ins.	6.00	20.00
Spanish Sierra Guad., 4 to 10 ins.	7.00	25.00
Austrian Pine, 3 to 6 ins.	6.00	20.00
Jap. Black Pine, 4 to 8 ins.	7.00	25.00
Douglas Fir, 3 to 6 ins.	5.00	25.00
Scotch Pine, 3-yr., non-yellowing, 6 to 12 ins.	6.00	30.00
American Arborvitae, 3 to 6 ins.	5.00	20.00
American Arborvitae, 4 to 8 ins.	7.00	30.00
American Arborvitae, 5 to 10 ins.	8.00	35.00
American Arborv., 10 to 16 ins.	12.00	50.00
Colorado Blue Spruce, 3-yr., 3 to 6 ins.	6.00	30.00
3 to 8 ins.	9.00	42.50
4 to 8 ins.	9.00	42.50
6 to 10 ins.	12.00	50.00
Poultas Fir, 3-yr., 5 to 10 ins.	7.00	25.00
Douglas Fir, 4-yr., 8 to 16 ins.	12.00	50.00

TERMS: Remittance with order. Plants at the 100 rate sent via parcel post prepaid, up to zone 5.

WUENNER'S EVERGREEN NURSERY

568 Elcher Road Pittsburgh 2, Pa.

NORTHERN-GROWN PLANTAINER STOCK

TAXUS, cuspidata, capitata, compacta, densa, intermedia, brownii, moonii, hatfieldii, spreading; hicksii, welleriana, Pinus muhlenbergii, \$1.35 each.

TAXUS CUSP. CAPITATA, 12 to 18 ins., \$1.35 each.

JUNIPERS, Pfitzer and Andorra, \$1.25 each.

ARBORVITAE, pyramidalis, nigra, elegantissima, woodwardii, wareana, \$1.25 each.

Quantity rate, 100 or more, 10c less.

Grown in 1-gal. containers 2 years. Heavily sheared, ready for growing on in larger containers or lining out.

TERMS: 25 per cent with order, balance prior to delivery. Packing charges extra at cost; pick up at nursery preferred. Purchaser to pay shipping charges.

PEARSON PARK NURSERIES

3649 Navarre (Near Toledo), Oregon 5, Ohio.

PINE SEEDLINGS AND TRANSPLANTS

Scotch, Austrian, Red Pine, seedlings, 2-0, 2-1, 3-0; 3 to 5 ins. up to 6 to 16 ins., \$10.00 to \$16.00 per 1000. Colorado Blue, White, Norway and Black Hills Spruce, 2-0, 2 to 4 ins., \$18.00 to \$20.00 per 1000. INQUIRIES INVITED.

LAND-O-PINES NURSERY

Scottville, Mich.

EVERGREEN SEEDLINGS

Scotch Pine, French green; 2-yr., 2 to 5 ins., with heavy roots, \$10.00 per 1000. Write for quantity prices.

WM LUBBERS

622 Graafschap Rd. Holland, Mich.

EVERGREENS, SAMPLED CUTTINGS

Each, 100	1000
Arborvitae, American, dark green; 6 to 10 ins.	\$.10
Arborvitae, pyramidal, 6 to 10 ins.	..09
Arborvitae, globe, 4 to 8 ins.	..09
Juniper, Hetz, 6 to 10 ins.	..09
Juniper, Pfitzer, 6 to 10 ins.	..10
Juniper, Savin, 6 to 10 ins.	..09
Juniper, Von Ehrhorn, 6 to 10 ins.	..10
Juniper, Andorra, 6 to 10 ins.	..09
Taxus cuspidata, 6 to 10 ins.	..09
Taxus hunekeana, 6 to 10 ins.	..09
Taxus hicksii, 6 to 10 ins.	..11
Taxus capitata (leaders), 6 to 10 ins.	..13

250 at 1000 rate. Spring delivery.

3 per cent discount, cash with order.

DE WINTER'S NURSERY

653 Port Sheldon Rd. Grandville, Mich.

BONSAI AND BARE-ROOT CONIFERS

Bonsai-type distorted Jap. Black, Jap. Red, Scotch, Table Mtn., Beach Pines, and Douglas Fir\$10.00

2-YR. SEEDLINGS

Colo. Blue and White Spruce, Jap. Black, Jap. Red, Scotch, Table Mtn., Austrian Black Pines, 4 to 8 ins. 7.50

Monterey Pine, bushy, heavy stems, root-pruned and topped, 8 to 12 ins. 10.00

1-YR. SEEDLINGS

Big Tree Redwood, Arizona Cypress, Douglas Fir, caribaea, elliotii, Monterey Pines 6.00

25 other rare Pines, in 2 to 3-in. pots. Seedlings \$1.00 per 100 extra to cover postage.

EVERGREEN FARMS (PINTO TAG)

P. O. Box 497 Palo Alto, Calif.

HEAVY POT-GROWN SURPLUS LINERS

Each	Per 1000
7000 Pfitzer Juniper	\$.13
3000 Pfitzer Compact Juniper	..13
1000 Pfitzer blue Juniper	..13
3000 Hetz Juniper	..13
2000 Pyracantha islandi	..12
3000 Nandinas	..12
3000 Ilex burfordi (Holly)	..12
3000 Ilex rotundifolia (Holly)	..12
2000 Wax-leaved Ligustrum	..12
6000 Arborvitae, pyramidal	..12
2000 Arborvitae, globe	..12
3000 Juniperus stricta	..12
2000 Berberis julianae	..15
1000 Euonymus patens	..12
2000 Buxus japonica	..12

250 at 1000 rate. Samples on request.

SCHNEIDMAN'S NURSERY

R. R. 8 Paducah, Ky.

SEEDLINGS AND TRANSPLANTS

2-yr. seedlings	100	1000
Scotch Pine (French), 4 to 8 ins.	\$.50	\$25.00
Scotch Pine (Austrian), 5 to 10 ins.	4.00	20.00
Scotch Pine (Finland), 5 to 10 ins.	4.00	20.00
Norway Spruce, 3 to 6 ins.	4.00	20.00
3-yr. seedlings	100	1000
Scotch Pine (Riga), 8 to 14 ins.	6.00	35.00
Austrian Pine, 8 to 14 ins.	6.00	35.00
Blue Douglas Fir, 4 to 8 ins.	6.00	35.00
Norway Spruce, 5 to 10 ins.	5.00	30.00
4-yr. transplants	Per 100	Per 1000
Blue Douglas Fir, 6 to 12 ins.	\$.20	\$20.00
Concolor Fir, 4 to 8 ins.	..20	..20.00
Colorado Blue Spruce, 5 to 10 ins.	..20	..20.00

Cash with order, packing free.

All priced F.O.B. Angola, N. Y.

Please send for complete list.

ARTHUR CASH NURSERY

Angola, N. Y.

EVERGREEN SEEDLINGS

100	1000
Scotch Pine (Riga), 8 to 16 ins.	\$.40
Scotch Pine (Riga), 4 to 10 ins.	5.00
Scotch Pine (Austrian), 5 to 10 ins.	4.00
Hills, No. German Low Plains, France-Highland Forests, No. Central Spain, 2 to 4 ins.	10.00
Austrian Pine, 4 to 8 ins.	4.00
Austrian Pine, 2 to 4 ins.	12.50
Red Pine, 4 to 8 ins.	4.00
White Pine, 4 to 6 ins.	4.50
White Spruce, 3 to 6 ins.	4.50
Norway Spruce, 5 to 10 ins.	6.00

TERMS: 2 per cent for cash with order, or 25 per cent down, balance C.O.D.

DUNEGAN NURSERY

Clymer, Pa.

CUTTINGS FROM SAND IN MAY AND JUNE

Per 100	Per 1000
Pfitzer Juniper	\$.90
Andorra Juniper	9.00
Hetz Juniper	9.00
Taxus hicksii	9.00
Red Pine, 4 to 8 ins.	9.00
Taxus I. Sebian	11.00

LITTLEFORD NURSERIES

Vincennes, Ind.

EVERGREEN LINERS AND CUTTINGS

Rooted Cuttings	2 1/4-IN. POTTED
Pfitzer Juniper	\$.80
Pfitzer Hetz Juniper	..80
Pfitzer Juniper	..18c
Pfitzer Hetz Juniper	..18c

TOWNSEND EVERGREEN NURSERY

S. Walnut St. Hartford City, Ind.

EVERGREEN SEEDLINGS

100	1000
Douglas Fir (caesia), 1 to 3 ins.	\$.25
Douglas Fir, glauca, 1 to 3 ins.	..25
Douglas Fir, glauca, 2 to 5 ins.	3.00
Colorado Blue Spruce, 1 to 3 ins.	2.50
Lawson Cypress, 4 to 6 ins.	3.00
Scotch Pine, French, 2-yr., 4 to 6 ins.	3.50
German, 2-yr., 4 to 6 ins.	3.50
German, 2-yr., 6 to 10 ins.	4.00
Arborvitae, Am. 2-yr., 2 to 5 ins.	2.50
Lawson Blue Cypress, 4-yr., TT, 8 to 12 ins.	\$3.00 per 100, \$15.00 per 1000
Douglas Fir (glauca), 4-yr., T, 3 to 6 ins.	100, \$13.00

Cash with order, free packing.

CARLSON'S EVERGREENS

Stop 35, Duneland Beach Michigan City, Ind.

3-YR. FIELD-GROWN LINERS

Per 100	
Ilex rotundifolia, XX, 12 to 15 ins.	\$.35
Juniper, Andorra, XX, 9 to 12 ins.	..35
Juniperus hetzi, XX, 9 to 12 ins.	..35
Juniperus hetzi, XX, 12 to 15 ins.	..42
Juniperus pfitzeriana, XX, 9 to 12 ins.	..35
Juniperus pfitzeriana, XX, 12 to 15 ins.	..42
Jun. pfitz. compacta, XX, 12 to 15 ins.	..42
Jun. pfitz. golden, XX, 12 to 15 ins.	..42
Taxus cuspidata, XX, 8 to 12 ins.	..40
Taxus hicksii, XX, 8 to 12 ins.	..40
Thuja elegantissima, XX, 9 to 12 ins.	..35
Thuja spiralis, XX, 9 to 12 ins.	..35
Thuja woodwardi, XX, 10 to 15 ins.	..35

DAMASCUS NURSERIES

Damascus, O.

JUNIPER GRAFTS

Varieties: Canaertii, keteleeri, burkii, glauca, dundee, chinensis columnaris, blue; Pfitzer and Hetz. All on virginiana understock. Priced: 45c each, regardless of number purchased.

Terms: One-fourth cash with order and balance before shipping date. Boxing and packing at cost. All cash with order earns free packing and boxing.

WHEN BETTER GRAFTS ARE MADE, CRUME WILL MAKE THEM

T. C. CRUME NURSERY

& LANDSCAPE CO.

Highway 42 Florence, Ky.

Phone Atlantic 3-2361

QUALITY LINERS

Per 100	
Douglas Fir, 4 to 7 ins., tr.	..15
Japanese Boxwood, 6 to 8 ins., tr.	..17
Mugo Pine, 4 to 8 ins., tr.	..20
Colorado Blue Spruce, 4 to 8 ins., tr.	..20
Canadian Hemlock, 4 to 8 ins., tr.	..25
Viburnum carlesii, 4 to 12 ins., tr.	..25
Enkianthus camp., 8 to 12 ins., tr.	..25
American Holly, 6 to 10 ins., tr.	..27
Taxus (best varieties), 6 to 8 ins., tr.	..27
French Hybrid Liliac, 6 to 12 ins., tr.	..30
Pink Fir, Dogwood, 10 to 15 ins.	..75

Send for new spring list.

POSSUM HOLLOW NURSERIES

6909 Henley St. Philadelphia 19, Pa.

CANADA HEMLOCK

Collected seedlings

Per 100	Per 1000
6 to 9-in. seedlings	\$.50
9 to 12-in. seedlings	8.00
12 to 18-in. seedlings	15.00
18 to 24-in. seedlings	30.00

TRANSPLANTS

4 to 8-in., 2-2	20.00	180.00
8 to 12-in., 2-2	25.00	240.00
12 to 18-in., 2-3	50.00	500.00

Send for complete list of hardy native Ferns, wild flowers, trees, shrubs and Evergreens.

ISAAC LANGLEY WILLIAMS

Box AN Exeter, N. H.

ROOTED CUTTINGS AND TRANSPLANTS

Strong, true to type, rooted cuttings of the following:

Taxus varieties: Brownii, kelseyi, hicksii, femina, wardii, Hill's dwarf pyramidal, dwarf erecta and cuspidata.

Hill's pyramidal and boothii Arborvitae.

These are large cuttings, hormone treated and radiant heat grown, producing an abundance of strong roots.

\$10.00 per 100 plants.

Write for prices of 2 and 3-yr. transplants of the above varieties.

Free packing for cash with order.

ARTLEY'S NURSERY

339 Cherry St. Montoursville, Pa.

Scotch Pine seedlings, French Green, German, Austrian Hill, 100 1000

2-yr., 2 to 4 ins.\$3.00 \$12.00

3-yr., 3 to 6 ins.3.15 15.00

3-yr., 6 to 14 ins.3.50 20.00

Colorado Blue Spruce, 3 to 6 ins. 5.00 25.00

White Spruce, 3 to 6 ins.5.00 25.00

Norway Spruce, 3 to 6 ins.5.00 25.00

Cash, F.O.B. here. Expert packing free.

West Olive Nursery & Evergreens, Route 1, West Olive, Mich.

EUONYMUS RADICANS, UPRIGHT (SARCOKIE)

9 to 12 ins., 25c.	12 to 15 ins., 40c.
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KRUMMEL NURSERY

Carthage, Mo.

EVERGREENS, Liners—Continued

EVERGREENS			
	Rooted cutting	Per 100	Per 1000
Taxus cuspidata, 6 to 7 ins.	...	\$9.00	\$85.00
Taxus fastigiata, 6 to 7 ins.	...	9.00	85.00
Taxus intermedia, 6 to 8 ins.	...	9.00	85.00
Juniperus glauca hetzi, 6 to 8 ins.	...	8.00	75.00
1-yr. from frames			
Taxus cuspidata, 6 to 10 ins.	...	15.00	140.00
Taxus fastigiata, 6 to 10 ins.	...	15.00	140.00
Terms: 2 per cent discount for cash, or 1/3 down with order and balance before shipment.			

HILLCREST GREENHOUSES
Miller Park Franklin, Pa.

EVERGREENS		Each	10
Arborvitae nigra, 2 to 3 ft.	...	\$2.35	
Arborvitae wareana, 2 1/2 to 3 ft.	...	3.00	
Juniper, Andorra, 15 to 18 ins.	...	2.75	
Juniper, Spiny Greek, 18 to 24 ins.	...	2.25	
Juniper, Meyer, 24 to 30 ins.	...	4.00	
Juniper, Savin, 12 to 15 ins.	...	1.90	
Pine, Scotch, 2 to 3 ft.	...	2.50	
Pine, White, 18 to 24 ins.	...	2.00	

THE HOME NURSERY
Since 1887
Corlies Ingels LaFayette, Ill.
On Route 17. In Stark county.

EVERGREENS		Per 100
Cedrus deodara, 6 to 8 ins.	...	\$10.00
8 to 12 ins.	...	12.50
Juniperus glauca hetzi, 2-yr.	...	15.00
bed-grown, 8 to 12 ins.	...	20.00
Juniperus chin. pfitzeriana, 2-yr.	...	15.00
bed-grown, 8 to 12 ins.	...	20.00
Juniperus horizontalis plumosa (Andorra), 8 to 12 ins.	...	15.00
Podocarpus sinensis, 8 to 12 ins.	...	15.00
Retinospora ericoides, 8 to 12 ins.	...	10.00

COTTAGE HILL NURSERY
4600 Japonica Lane Mobile, Ala.

SCOTCH PINE SEEDLINGS		Per 1000
Christmas tree strains. State certified.		
Variety, 3-9	...	Per 1000
German strain, 5 to 10 ins.	...	\$12.50
French strain, 5 to 10 ins.	...	12.50
Riga strain, 5 to 10 ins.	...	12.50
Variety, 2-0	...	Per 1000
German strain, 3 to 6 ins.	...	\$10.00
Polish strain, 3 to 6 ins.	...	10.00
French strain, 3 to 6 ins.	...	10.00
Orders of 5000 or more, 10 per cent discount; 10,000 or more, 15 per cent discount.		

CORNELIUS RYNSBURGER
R. R. 3 Hudsonville, Mich.

2-yr. Pine, Spruce seedlings		Per 100	Per 1000
Scotch, non-yellowing,	...	Per 100	Per 1000
4 to 6 ins.	...	\$5.00	\$25.00
5 to 10 ins.	...	7.00	35.00
Scotch (French), 4 to 6 ins.	...	5.00	25.00
Scotch (French), 5 to 9 ins.	...	7.00	35.00
Austrian Pine, 3 to 5 ins.	...	5.00	25.00
Colo. Blue Spruce, 4 to 6 ins.	...	6.00	30.00
5 to 8 ins.	...	8.00	40.00
White Spruce, 4 to 8 ins.	...	5.00	25.00
8 to 12 ins.	...	7.00	35.00
Shipped F.O.B. Pulaski. Terms, cash.			
Stupka Nursery, R. D. 1, Pulaski, Pa.			

PINE, SPRUCE, SEEDLINGS AND LINERS		100	1000
Scotch Pine, 3-yr., 8 to 14 ins.	...	\$ 6.00	\$35.00
Colo. Blue Spruce, 4-yr., 5 to 12 ins.	...	8.00	55.00
Norway Spruce, 3-yr., 6 to 12 ins.	...	6.00	40.00
Juniperus glauca hetzi, 2-yr., 6 to 12 ins.	...	25.00	...
Spreading Jap. Yew, 3-yr., 4 to 8 ins.	...	30.00	...
Write for complete list.			

PAINT CREEK NURSERIES
R. D. 1 Shipperville, Pa.

EVERGREENS, TRANSPLANTS		Per 1000
4-yr. transplants	...	Per 1000
White Spruce, 8 to 12 ins.	...	\$50.00
Black Hills Spruce, 8 to 12 ins.	...	60.00
Colorado Blue Spruce, 6 to 10 ins.	...	65.00
Austrian Pine, 6 to 10 ins.	...	50.00
Scotch Pine, 8 to 12 ins., 2-yr. sdg.	...	15.00

W. S. YOE NURSERIES
Lake St. Madison, O.

BERCKMANS' GOLDEN ARBORVITAE OUR SPECIALTY		Each	1000
Sturdy liners, dirt-grown in full sun.			
4 to 6 ins.	...	8c	71c
6 to 8 ins.	...	11c	10c
8 to 12 ins.	...	16c	15c
12 to 16 ins.	...	22c	20c

THE BUSH RANCH
140 Woodland Dr. Thomasville, Ga.
James W. Lawson, Mgr. Phone CA 6-4245

EVERGREENS
Seedlings and transplants for Christmas trees, timber, ornamentals, windbreaks, 10 STRAINS OF SCOTCH PINE TO CHOOSE FROM. A strain for every situation. Douglas Fir, Arborvitae, Austrian Pine. All stock graded for uniform plantation stands. Write ED KINNE
BIG FLATS NURSERY, BIG FLATS, N. Y.

CHRISTMAS TREE SEEDLINGS 1000
Scotch Pine, French, 3-0, 7 to 12 ins. \$32.00
Scotch Pine, 3-0, 8 to 18 ins. \$32.00
Strains: Aust., green; Polish, Ger., Belgium.
Our beds are seeded very lightly; as a result our seedlings have ample room for full growth in both roots and tops. You are assured of heavier stock with much greater success in planting. Write for complete price list of Pine, Fir and Spruce.

RAYMOND NELSON
CHRISTMAS TREE NURSERY
Oklahoma Road DuBois, Pa.

EVERGREENS		100	1000
Douglas Fir, 2-1, 5 to 8 ins.	...	\$9.00	\$45.00
Austrian Hills Scotch Pine, 2-1, 6 to 8 ins.	...	9.00	45.00
Concolor Fir, 2-0, 6 to 8 ins.	...	9.00	45.00
F.O.B. Kalispell, Mont.; Olympia, Wash.			
Stock shipped parcel post or express or as specified. Full payment with order, or 25 per cent deposit, balance before shipment.			
(Christmas trees since 1880.)			

J. HOFERT CO.
Box 3805 Seattle 24, Wash.

GRAFTS AND ROOTED CUTTINGS
Blue Spruce
Picea pungens, moerheim grafts.
25 to 100, \$1.25 each;
100 or more, \$1.00 each.
Ilex hetzi, rooted cuttings, abundant roots.
100, 15c each; 1000, 12c each.
All priced F.O.B.
BRUCE KREKLER NURSERY
753 S. Cleveland Massillon Rd.
Akron 13, O.

EVERGREEN SEEDLINGS		1000
Scotch Pine, 4-yr., 12 to 22 ins.	...	\$40.00
Scotch Pine, 3-yr., 8 to 14 ins.	...	35.00
Scotch Pine, 3-yr., 7 to 12 ins.	...	20.00
Scotch Pine, 2-yr., 4 to 8 ins.	...	20.00
Austrian Pine, 4-yr., 10 to 16 ins.	...	35.00
Austrian Pine, 3-yr., 8 to 12 ins.	...	30.00
Mugho Pine, 4-yr., 4 to 9 ins.	...	35.00
Norway Spruce, 3-yr., 8 to 12 ins.	...	35.00
American Arborvitae, 3-yr., 8 to 12 ins.	...	45.00

KISSINGER'S NURSERY
25 Ridge Ave. Homer City, Pa.

Scotch Pine, seedlings, from selected seed		Per 100	Per 1000
2-yr., 2 to 4 ins.	...	\$2.00	\$10.00
2-yr., 4 to 8 ins.	...	3.00	15.00
3-yr., 8 to 14 ins.	...	4.00	25.00
Blue Spruce, 4-yr., 4 to 8 ins.	...	5.00	35.00
3-yr., 2 to 6 ins.	...	4.00	25.00
White Spruce, 3-yr., 3 to 8 ins.	...	4.00	25.00
Terms: Cash with order, or 25 per cent down, balance F.O.D.			
Vernon Dale Nursery, R. D. 4, Meadville, Pa.			

CANADA HEMLOCK, SEEDLINGS		Per 1000	Per 10,000
3 to 8 ins.	...	\$30.00	\$250.00
6 to 9 ins.	...	45.00	400.00
9 to 12 ins.	...	60.00	550.00
12 to 15 ins.	...	\$5.00	...

9 to 12 ins., transplants, 5-yr. \$25.00
9 to 12 ins., transplants, heavy 5-yr. \$5.00
SCORREL TREE SERVICE
Babcock Blvd. Gibsonia, Pa.

EVERGREENS, ROOTED CUTTINGS
GRAFTS
Choice selection in Arborvitae, Junipers, rare Pines, Koster's Blue Spruce, Moerheim Blue Spruce and Taxus in variety.
Send for new list out now.

TRAUTMAN NURSERIES
R. R. 1, Box 379 Franksville, Wis.

TAXUS CUSPIDATA (Spreading Yew)		6 to 8 ins.
Strong cuttings, heavily rooted, 6 to 8 ins.		\$75.00 per 1000. Cash with order, please.
Shipped to your door, free.		
50 years of growing fine plants.		
THE TEPPEY NURSERY CO.		
3871 Remembrance Rd. N. W.		
Grand Rapids, Mich.		

BIOTA AUREA NANA (BERCKMANS)
Well-rooted cuttings, \$50.00 per 1000.
JOHNSON'S NURSERY, BAXTER, TENN.

EVERGREENS
See our Classified ad in this issue under LINING-OUT STOCK.
T. G. OWEN & SON, INC.
Columbus, Miss.

Scotch Pine seedlings		Field-run, counted and bundled.
2-yr., 2 to 8 ins.	...	\$12.00 per 1000
3-yr., 5 to 16 ins.	...	20.00 per 1000
Vernon Dale Nursery, R. D. 4, Meadville, Pa.		

EVERGREENS, B&B
Via purchaser's truck, all B&B 1-24 25-160

Irish Juniper, 24 to 30 ins.	...	\$22.50	\$2.00
Andorra Juniper, 15 to 18 ins.	...	2.50	2.00
Von Ehron Juniper, 18 to 24 ins.	...	2.25	2.00
Greek Juniper, 18 to 24 ins.	...	2.35	2.10
Pyramidal Arbor., 60 to 72 ins.	...	5.00	4.50
Colorado Blue Spruce, 36 to 60 ins., per ft.	...	2.00	...
Sylvania Nursery & Per Co., New Galilee, Pa. Route 351. Phone Edgewater 6-2133.			

EVERGREENS, B&B

	Each	100
Berberis sargentiana	...	\$2.50
3 1/2 to 4 ft.	...	3.00
4 to 5 ft.	...	4.00
Viburnum rhytidophyllum	...	2.00
30 to 36 ins.	...	2.50
3 to 3 1/2 ft.	...	2.50
3 1/2 to 4 ft.	...	3.50
4 to 5 ft.	...	4.00
5 to 6 ft.	...	5.00
Ilex cornuta compacta, heavy, field	...	2.35
18 to 24 ins.	...	3.00
24 to 30 ins.	...	3.80
Ilex crenata convexa	...	1.75
15 to 18 ins., heavy, field	...	2.00
18 to 24 ins., heavy, field	...	2.75
24 to 30 ins., heavy, field	...	3.50
Ilex crenata rotundifolia	...	1.50
15 to 18 ins., heavy, field	...	2.00
18 to 24 ins., heavy, field	...	2.00
Ilex crenata globosa	...	1.75
15 to 18 ins., heavy, field	...	2.00
18 to 24 ins., heavy, field	...	2.75
24 to 30 ins., heavy, field	...	3.50
Ligustrum lucidum, heavy, field	...	1.75
24 to 30 ins.	...	2.00
2 1/2 to 3 ft.	...	1.50
18 to 24 ins.	...	2.00
Osmanthus aquifolium, heavy, field	...	2.50
18 to 24 ins.	...	2.00
24 to 30 ins.	...	2.50

Trade list includes many others. Ask for it.
LINDLEY NURSERIES, INC.
Box H Greensboro, N. C.

EVERGREENS, B&B		2000	1000
Andorra Juniper, 24 to 30 ins.	...	\$2.00	1.50
Andorra Juniper, 18 to 24 ins.	...	1.50	1.00
Hetz Juniper, 24 to 30 ins.	...	2.00	1.50
Savin Juniper, 18 to 24 ins.	...	1.50	1.00
Pfitzer Juniper, 24 to 30 ins.	...	2.50	2.00
Pfitzer Juniper, 18 to 24 ins.	...	2.00	1.50
Am. Arborvitae, 4 to 5 ft.	...	2.50	2.00
Am. Arborvitae, 3 to 4 ft.	...	2.00	1.50
Mugho Pine, 15 to 18 ins.	...	2.00	1.50
Mugho Pine, 12 to 15 ins.	...	1.50	1.00
Ilex rotundifolia, 18 to 24 ins.	...	2.50	2.00
Ilex rotundifolia, 15 to 18 ins.	...	2.00	1.50
Ilex rotundifolia, 12 to 15 ins.	...	1.50	1.00
Ilex convexa, 12 to 15 ins.	...	1.50	1.00
Dogwood, white, 4 to 5 ft.	...	2.00	1.50
Dogwood, white, 5 to 6 ft.	...	2.50	2.00

Book your orders in advance.
Cash. F.O.B. your truck or will arrange trucking.

KANEFF'S NURSERIES, MARIETTA, O.

LANDSCAPE MATERIAL, B&B
Taxus, 500 2 1/2 ft. capitata, 200 thayerae cuspidata, 2 1/2-ft. spread; 600 intermedia cuspidata, 2 1/2-ft. spread; 600 hicksii, 18 to 24 ins.; 350 globe Arborvitae, 18 to 24 ins.; 300 globe Arborvitae, 2 to 2 1/2 ft.; 800 Leucothoe, 18 to 24 ins.; 1000 Hemlocks, 2 1/2 to 4 1/2 ft.; 800 Pteris japonica, 18 ins. to 2 1/2 ft.; 200 Pteris floribunda, 18 ins.; 600 Juniperus hetzi, 2 ft.; 300 Pfitzer compact Juniper, 2 1/2 ft.; 600 Ilex convexa bullata, 2-ft. spread; 150 Ilex crenata, 2 to 3 ft.; 250 Juniperus plumosa (golden), 2 to 3 ft.; 200 Jun. plumosa, 3 ft.; 350 2 1/2-ft. Norway Spr.; 300 Arborvitae nigra (Am.), 3 to 3 1/2 ft.

All material first grade and sheared. Also carry a full line of annual plants for spring.
BRANDY NURSERY
912 Park Ave. Huntington, L. I., N. Y.
Phone HAMILTON 3-2456

EVERGREEN BARGAINS		Canert Juniper, heavy, sheared, row-run, 4 to 5 ft.
Canert Juniper, heavy, sheared, row-run, 4 to 5 ft.	...	\$3.75
Canert Juniper, not sheared, 5 to 6 ft.	...	3.50
Canert Juniper, extra heavy, 6 to 7 ft.	...	6.00
Pfitzer Juniper, 3 to 3 1/2 ft.	...	2.50
Hetz Juniper, 3 1/2 to 4 ft.	...	3.00
Juniperus fastigiata, sheared, 5 to 6 ft.	...	2.50
Pyramidal Arborvitae, 3 to 3 1/2 ft.	...	2.15
Pyramidal Arborvitae, 5 to 6 ft.	...	3.00
Terms: One-fourth deposit with order, balance at nursery.		
T. C. CRUME NURSERY & LANDSCAPING CO.		
Highway 42 Florence, Ky.		
12 miles from Cincinnati		
Phone ATLANTIC 3-2361		

B&B STOCK		We have the following stock available this spring. Each
125 Hemlock (Canadian), 2 to 2 1/2 ft.	...	\$3.25
150 Hemlock (Canadian), 2 1/2 to 3 ft.	...	3.75
35 Ilex glabra, 15 to 18 ins.	...	2.75
50 Pink-flowering Dogwood, 4 ft.	...	3.75
10 Magnolia glauca (Gardenia fragrance)	...	3.00
38 Magnolia glauca	...	4.00
25 Magnolia glauca	...	5.00

LITTLEFORD NURSERIES
Vincennes, Ind.

QUALITY STOCK, CAREFULLY HANDLED
Biota aurea nana, 15 to 18 ins. \$1.00
Juniperus stricta, 15 to 18 ins. 1.00
Juniperus hetzi, 12 to 15 ins. 1.00
Thuja globosa, 12 to 15 ins. 1.00
California Privet (Bol. 25), 18 to 24 ins. 1.00
Foraythia spectabilis, 4 to 5 ft. 1.00
Complete list upon request.
OAKVIEW NURSERY, NEWELL, N. J.
Phone Canal 7-2450

SHEARED STOCK, GOOD BALL

Juniperus glauca hetzel, 15 to 18 ins.\$1.00
 Juniperus excelsa stricta, 12 to 15 ins.80
 Retinospora plumosa, 18 to 24 ins. 1.00
 Taxus cuspidata, 15 to 18 ins. 2.00
 Thuja occ. globosa, 8 to 10 ins.60
 Euonymus japonicus, 15 to 18 ins. 1.00
 Write for complete wholesale price list.

SO. JERSEY COLONIAL NURSERIES, INC.
 Route 46, R. D. 1 Salem, N. J.
 Phone Salem 2366

FINISHED LANDSCAPE MATERIAL
(SPECIAL PRICE)

Nick's Compact Juniper, 30 to 36 ins.\$2.35
 Keteleer Juniper, 5 to 6 ft. 2.75
 Pfitzer Juniper, 30 to 36 ins. 2.00
 Greek Juniper, 24 to 30 ins. 1.50
 Spotted Juniper, 24 to 30 ins. 1.65
 Beckmans' Arborvitae, 24 to 30 ins. 1.65
 Wexlar Ligustrum, 3 to 4 ft. 1.35
 Chinese Juniper, 4 to 6 ft. 1.75
 MANY VARIETIES OF HOLLY, ALL

BERRIED.
 PITTMAN NURSERIES, MAGNOLIA, ARK.

ANDORRA JUNIPER

30 extra nice, well filled,
 3 to 4 ft., \$3.50 each.
 \$75.00 for the lot.
 You dig them and fill holes.

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JUNIPERS

PFITZER AND ANDORRA

18 to 24 ins. B&B, \$1.75, AT NURSERY.
 2500 PLANTS TO CHOOSE FROM.
 SPECIAL PRICES ON QUANTITY

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SPECIMEN DOUGLAS FIR

4 times transplanted, average 7 ft., \$25.00
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 Junipers, Holly and Pines. 50 miles S. E. of
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PECAN TREES, PAPER-SHELL

The nation's finest quality paper-shell
 Pecan trees. Vigorous, heavy caliper, smooth
 trees, grown under irrigation. All staked
 and trimmed for best appearance. Machine
 dug with the whole fibrous root system in-
 tact. Free, four-color Point of Purchase ban-
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 Free planting guide for your customers.
 Order now while selections are complete.
 Varieties available: Stuart, Success, Mahan,
 John Garner, Western Schley.

PRICES

	10	50	100
6 to 7 ft.	\$3.30	\$3.20	\$3.10
7 to 8 ft.	3.85	3.75	3.65
8 to 10 ft.	4.45	4.35	4.25

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Vigorous 3 1/4 to 5 ft., 2-yr.,
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 Cortland, Yellow Delicious, McIntosh.

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FRUIT TREE STOCK

East Mailing type No. 7, well-rooted layers
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Lincoln Park, N. J.

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GARDENIA FORTUNEI

Extra heavy plants from 2 1/4-in. pots.
 Per 100\$ 12.50
 Per 1000 100.00

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2 1/4-in. pots, per 100 12.50
 8 to 12 in. bare-root, heavy, per 100. 12.50

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RHUBARB, VICTORIA STRAIN

Grown one year from divisions, which en-
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Chipman's Canada Red Rhubarb.
 No. 1 divisions, \$25.00 per 100.
 50 at 100 rate.

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CHIPMAN'S CANADA RED RHUBARB

First-class, freshly cut divisions, 50 for
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 Immediate or later shipment.
 Inquire for large quantity prices.
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RED RHUBARB, NO. 1, DIVISIONS

Chipman's Canada Red, MacDonald Red,
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 East Leroy, Mich.

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QUALITY GERANIUM CUTTINGS

Rooted, \$5.50 per 100, \$50.00 per 1000.
 Special varieties slightly higher. Catalog of
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Hardy running Myrtle (Vinca minor),
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 cuttings, \$50.00 per 1000.
 Pachysandras, 1-yr., rooted cuttings, \$50.00
 per 1000.

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Ajuga genevensis\$ 5.00 per 100
 Ajugas, red-leaf 5.00 per 100
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 Euonymus fortunei coloratus, 20.00 per 100
 2 1/2-in. plant bands 20.00 per 100
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Hardy Myrtle (Vinca minor), plants with
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 Also stocked of all items listed.
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HARDY MYRTLE

(Vinca minor)

20 to 30 leads, \$50.00 per 1000.
 5000 and over, \$45.00 per 1000.

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Granger, Ind.

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STRONG FIELD-GROWN PERENNIALS

(Priced each, per 10 or more) Each

NEW DWARF ASTERS
 Canterbury Carpet (8 to 10 ins. tall)\$0.20
 Little Blue Boy (6 ins. tall)25
 Persian Rose (15 ins. tall)20
 Pink Bouquet (8 to 10 ins. tall)20
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 Rose Serenade (rose-pink, 12 ins.)25
 Snowball (white, 12 ins. tall)20
 ASTER Frickart Wonder of Staffa25
 ASTILBES, Bonn (carmine-pink)30
 Deutschland (white)30
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 Immediate delivery. List on request.
 Cash with order. P.O.E. Canby, Ore.
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GYPSOPHILA BRISTOL FAIRY

Strong 2 1/4-in. pot plants, grafted.

Per doz. Per 100 Per 1000

\$4.00 \$25.00 \$225.00

25 at 100 rate; 250 at 1000 rate.

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PERENNIALS

Over 500,000 plants.

Over 475 varieties of choice premium stock.

Send for catalog.

SPRINGBROOK GARDENS, INC.

Mentor, O.

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PERENNIALS

Strong field-grown plants. Write for trade

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Bristol, Pa.

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WELL-DEVELOPED, MATURE PLANTS
 WITH EXCEPTIONALLY FINE, STRONG
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 TRACTIVE DISPLAY THIS SEASON. WE
 ARE LISTING BELOW A FEW OF OUR
 MORE POPULAR ITEMS. WRITE FOR
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 OUR FINE PLANTS.

Per 10 Per 100

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 Mrs. Scott Elliott's\$1.75 \$12.00
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 (An assortment of frilled, single, semi
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 Less 2c per plant on orders for 250 or
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 Terms: Cash with order, or 25 per cent de-
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Per 100

Alyssum sax. compactum\$15.00
 Aquilegia Crimson Star 18.00
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Dept. A Mentor, O

HARDY FIELD-GROWN PERENNIALS

Aquilegia separate colors: Armbia, Aubri-
 etta, Campanula, Carnations, Chives, Del-
 phinium Pacific Hybrids, 10 separate colors;
 Dianthus, Digitalis, Gaillardia, Geums, Iberis
 sempervirens, English Lavender, Lythrums,
 Russell Lupines, Myosotis, Phlox subulata, 15
 varieties; Primroses, Pyrethrums (Daisies),
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 eties; Sweet Williams, Thymes, Tritomas,
 Trollius, Violas, Violets, Helleborus niger and
 Doronicum.

If you haven't received our list, send for
 it now. 100 or more good varieties.

All plants freshly dug for each order.

Orders take now for spring delivery.

Shipping date, after March 15.

GEORGE FRANK & SON

Penfield, N. Y.

PHLOX AND IVY.

Per 100 Per 1000

Phlox suffruticosa Miss Linsard

(strong, from 2 1/4-in. pots) \$17.00 \$150.00

English Ivy, 2 1/4-in. pots 10.00 90.00

German Ivy (Baltic strain) 10.00 90.00

500 at the 1000 rate.

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Chesterland, O.

HARDY PLANTS—Continued

PERENNIALS	Per 100
Funkia subcordata grandiflora	\$35.00
Funkia Thos. Hogg	25.00
Funkia lanceolata	15.00
Funkia variegata	15.00
Astilbe Fanol	25.00
Sedum spectabile (Brilliant)	15.00
Veronica subaenariifolia longifolia	15.00
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Heuchera Pluie de Feu	15.00
Lychnis viscaria splendens	15.00
Plumbago	12.00
Myrtle	12.00
Dictamnus Ruber (Gas Plant)	25.00

Cash F.O.B. our nursery.
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870 Madison Ave., Painesville, O.

DICENTRA SPECTABILIS	Per 50	Per 100	Per 1000
2 to 3 eyes	\$12.00	\$20.00	\$175.00
3 to 5 eyes	16.00	30.00	275.00
4 to 6 eyes, extra heavy roots, \$5.00 per 12, \$9.50 per 25, \$18.00 per 50, \$35.00 per 100, \$325.00 per 1000			

Total of 250 roots at 1000 price.
Nice, strong roots, in cold storage now and ready for shipment.

Write for quotation on large quantities.
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Hardy Ferns from the northwest
Polypodium vulgare (Licorice Fern) \$10 \$ 75
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Cryptogramma acrostichoides (Parsley Fern) 30
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Also Lithospermum Heavenly Blue and Heathers. Write for price list.
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VARIATED FUNKIA
3 to 5-eye divisions.
\$20.00 per 100, \$180.00 per 1000.
THE HOLLANDIA GARDENS
South Vienna, O.

America's best source
for Hardy Plants is
THE WAYSIDE GARDENS
Mentor, Ohio
Write for Trade List.

HARDY FERNS (DORMANT ROOTS)
Ostrich, Clayton, Lady and Maidenhair,
\$10.00 per 100, \$75.00 per 1000.
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Taylors Falls, Minn.

Liriope (Ophiopogon), hardy, evergreen, for walks and borders; strong divisions, \$20.00 per 1000.

Mountville Nurseries, Mountville, Ga.
SPECIALISTS IN HARDY PERENNIALS
Ask for wholesale offer.
PEARCE SEED CO., Moorestown, N. J.

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WELLER NURSERIES CO., Holland, Mich.
Write for trade list.
Primroses, hardy, evergreen; mixed colors only; good blooming size divisions, \$12.50 per 100. Mountville Nurseries, Mountville, Ga.

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HELLEBORUS NIGER
(Christmas Rose)
3-yr. transplants, blooming size.
Suitable to pot up for sales on roadside stands and garden centers.
\$50.00 per 100, \$450.00 per 1000.
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Hardy Hemerocallis.
Write for wholesale list.
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HARDY HIBISCUS
Henderson's Giant Hybrids, 8 to 12-in. blooms.
Super Rose, 2-yr. \$1.50 each
White Beauty, 2-yr. 1.50 each
2-yr. heavy seedlings, mixed \$35.00 per 100
1-yr. heavy seedlings, mixed 20.00 per 100
Liners, heavy seedlings, mixed, all blooming stock 10.00 per 100
50 at 100 rate. Send for list.
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ILEX OPACA, NORTHERN VARIETIES
2 to 3 ft., 5-yr. in field \$ 5.00 each
3 to 4 ft., 5-yr. in field 7.50 each
4 to 5 ft., 5-yr. in field 10.00 each
Lighter plants, more berries, 3-yr. in field, \$3.50, \$5.00 and \$7.50.
SIMPSON ORCHARD CO., INC.
1504 Wheatland Rd., Vincennes, Ind.
Phone 489-3.

HOLLY (ILEX)
FREE packing on all liners. Try these and you will agree there are none finer!

	Per 100
Ilex cornuta burfordi, 2½-in. pots (8 to 12 ins.)	\$15.00
8 to 12 ins., bare-root	12.50
12 to 18 ins., bare-root	15.00
Ilex cornuta femina, 3-in. pots (8 to 12)	20.00
Ilex crenata convexa, 2 to 10 ins., bare-root, TT	15.00
Ilex crenata Foster No. 1, 6 to 8 ins., heavy	15.00
Ilex crenata helleri, 2½-in. pots, branched	15.00
Ilex crenata hetzi, 3-in. pots	20.00
8 to 12 ins., bare-root	20.00
Ilex crenata rotundifolia, 10 to 15 ins., bare-root, TT	15.00
Ilex crenata Stokes (pat. 887), 2½-in. pots, branched	20.00
Ilex vomitoria nana, 2½-in. pots, branched	17.50
Other sizes available in the above. Send for listing on these and other fine liners.	

Other sizes available in the above. Send for listing on these and other fine liners. SATISFACTION GUARANTEED!

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ILEX ROTUNDIFOLIA
Thousands of splendid pruned plants.
12 to 15 ins. \$1.40 18 to 24 ins. \$2.35
15 to 18 ins. 1.85 24 to 30 ins. 3.35
100 or more, 10 per cent discount.
Send for spring list, Azaleas, Crabs, broad-leaved Evergreens, etc.

THE TANKARD NURSERIES
Exmore, Va.

CONTAINER-GROWN PLANTS
ILEX, OUR SPECIALTY.
1 and 2-gallon sizes.
Convexa, rotundifolia, burfordi and helleri.
Send for list.

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SUPERIOR NAMED VARIETIES
WHOLESALE SUPPLIERS
OF LINING-OUT STOCK
Write for our price list.
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VARIATED HOLLY
Liners, 10 to 14 ins. tall, 2 1/2-in. pots, 40c.
Ready for October shipping.
F.O.B. Cash with order.
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Clackamas, Ore.

Quick—Convenient—Cheap!
Selling through the Classified Ads
of the American Nurseryman.

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HONEYSUCKLES
Lonicera japonica halliana, extra-heavy No. 1, 2 and 4-yr., 18 to 24-in. field plants, 3, 4 to 6 leads, \$40.00 per 1000; lighter grade, \$30.00 per 1000; sample, 100, \$4.00. Experienced labor for grading and packing quantity orders. Immediate shipment. No order too large. Phone OR 2-4612.
ROBINSON NURSERY CO., Greenville, Ga.

Hall's Honeysuckle, good plants, well packed, \$20.00 per 1000. F.O.B. our shipping point. Mountville Nurseries, Mountville, Ga.

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JAPANESE IRIS (KAEMPFER)
SURPLUS STOCK. Repsime, Kati-nami, Melpome, Lucia Marshall, Columbia, Azura, Blue Bird, Uchui. 10 to 20c each; 25 at 15c.
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9,500 Active Nurserymen
are in need of stock.
List your offerings in the
American Nurseryman Classified Section.

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BALTIC IVY
Hardest Ivy. Fine for wall or ground cover. True stock. Well-rooted plants.
Per 100 Per 1000
Rooted cuttings \$ 7.00 \$ 65.00
2-in. pots 12.50 115.00

NEW THORNDALE IVY
2 1/2-in. pots \$25.00 per 100
Euonymus kewisii, 2-in. pots, 20.00 per 100
EUNYMIUS VEGUTUS
2-in. pots, \$12.00 per 100, \$110.00 per 1000.
2-yr., field-grown, \$35.00 per 100.
STRATFORD GARDENS
Russell Breece, M. R. 9 Delaware, O.

BALTIC IVY, 3-IN. POTS
Vines 5 ft. long (heavy), \$20.00 per 100.
Cash with order. Packing free.
THE KURTZ NURSERIES
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ENGLISH IVY (HEDERA HELIX).
Rooted cuttings, \$20.00 per 1000.
FRED C. GLOECKNER & CO., INC.
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LAWN GRASS AND SEED

LAWN SEED
Wholesale prices, F.O.B. New York.

Wholesale prices. F.O.B. New York.		
	50 lbs.	100 lbs.
Sunny Best Mixture	\$44.00	\$82.00
contains Merion Blue		
Landscape Gardeners' Mixture. 26.00		46.00
Shady Mixture	25.50	45.00
Cemetery Mixture	28.00	50.00
Athletic Field Mixture	23.00	39.50
300 lbs. or more shipped freight paid.		
Send for complete list which shows con-		
tents of above and other mixtures, also cur-		
rent prices for individual grasses.		
HERBST BROS., SEEDSMEN, INC.		
678 Broadway	New York 12, N. Y.	

300 lbs. or more shipped freight paid.
Send for complete list which shows contents of above and other mixtures, also current prices for individual grasses.
HERBST BROS., SEEDSMEN, INC.
678 Broadway New York 12, N. Y.

"PURE KY." BLUE GRASS LAWN SEED
Best crop in years; lowest price. Take advantage now. 10 lbs. \$5.00; 25 lbs. \$11.50; 50 lbs. \$19.75; 100 lbs. \$37.50. F.O.B. Cash. Subject to price change or unsold.
Test weight and analysis excellent.
WALNUT LAWN FARM
Route 2 Lexington, Ky.

LINING-OUT STOCK

POT LINERS
R—Rose Pots. P—Peat Pots.

Ilex burfordi, 3-in. P.	17 1/2
Ilex crenata convexa, 3-in. P.	17 1/2
Ilex crenata hetzi, 2 1/2-in. R.	15
Ilex crenata repandens, 2 1/2-in. R.	15
Ilex opaca East Palatka, 2 1/2-in. R.	17 1/2
Laurocerasus caroliniana, 2 1/2-in. R.	12
Magnolia glauca, 2 1/2-in. R.	15
Osmanthus aquifolium, 2 1/2-in. R.	20
Osmanthus fortunei, 6 to 8 ins., 2 1/2-in. R.	17 1/2
Thuja occidentalis compacta erecta, 2 1/2-in. R.	17 1/2
Thuja occidentalis globosa, 2 1/2-in. R.	17 1/2
Thuja occidentalis nigra, 2 1/2-in. R.	17 1/2
Thuja occidentalis pyramidalis, 2 1/2-in. R.	17 1/2
Thuja occidentalis wareana, 2 1/2-in. R.	17 1/2
Thuja orientalis Berckmans' Golden, 2 1/2-in. R.	17 1/2
Thuja orientalis excelsa, 2 1/2-in. R.	17 1/2
Thuja orientalis fruitlandi, 2 1/2-in. R.	17 1/2
Thuja orientalis bonita, 2 1/2-in. R.	17 1/2
Thuja orientalis newarkii, 2 1/2-in. R.	17 1/2
Viburnum burkwoodi, 6 to 8 ins., 2 1/2-in. R.	17 1/2

BED-GROWN LINERS

Buxus harlandi, T., 1-yr., 4 to 6 ins.	68
Buxus harlandi, T., 2-yr., 6 to 8 ins.	12
Chamaecyparis lawsoniana, T., 1-yr., 6 to 8 ins.	15
Ilex burfordi, T., 2-yr., 6 to 10 ins.	15
Ilex crenata rotundifolia, T., 2-yr., 6 to 8 ins.	15
Jasminum floridum, T., 8 to 12 ins.	12

FIELD-GROWN LINERS

Ilex crenata rotundifolia, TT.
Ilex crenata convexa, TT, 4-yr., field-grown plants, many times trimmed. Specimen quality. Fine for cans. Each \$6.00.
10 to 12 ins. \$6.00
12 to 15 ins. \$6.00

CARTWRIGHT NURSERY CO.
Collierville, Tenn.

LINING-OUT STOCK

100	1000
Andromeda japonica, transplanted cuttings	\$17.50 \$150.00
Taxus canadensis	
3-yr., X, 6 to 9 ins.	16.00 150.00
5-yr., XX, 8 to 10 ins.	50.00 475.00
6-yr., XX, 12 to 15 ins.	60.00 575.00
Taxus cuspidata capitata	
2-yr. seedlings	10.00 90.00
3-yr. seedlings, X	17.50 150.00
Rooted cuttings from sand	
Ilex convexa bullata	9.00 80.00
Ilex convexa hetzi	11.00 100.00
Ilex rotundifolia	9.00 80.00
Taxus andersoni	15.00 125.00
Taxus brownii	11.00 100.00
Taxus brevifolia	15.00 125.00
Taxus cuspidata	10.00 80.00
Taxus cuspidata nana	11.00 100.00
Taxus densiformis	15.00 125.00
Taxus hatfieldi	11.00 100.00
Taxus hickii	10.00 80.00
Taxus hunnewelliana	11.00 100.00
Taxus henryi	15.00 125.00
Taxus intermedia	11.00 100.00
Taxus cusp. spaethii sp.	15.00 125.00
Taxus veruculeni	11.00 100.00
Taxus wardii	11.00 100.00

We also can supply most of the varieties mentioned in 1-yr. bedded and 2-yr. field-bedded, grown in open beds.

We are in a position to offer special prices on orders of 10,000 and up.
In our list, we have a complete assortment of potted grafted stock, root grafts, Kwanzan Cherry, Crab Apples, seedlings and transplants.

We will be pleased to send you our list upon request.

P. O. Box 295 Ridgewood, N. J.

LINING-OUT STOCK

Per 100 Per 1000
Willow Oak (Quercus phellos)
1-yr., 15 to 18 ins. \$15.00 \$125.00
Write for complete price list.
GULF STREAM NURSERY, INC.
Wachapreague, Va.

THE COTTAGE GARDENS OFFERS
THE FOLLOWING

	100 rate	1000 rate
Buxus koreana		
375 2-yr. pots	\$0.35	\$0.30
Calceanthus floridus		
8600 1-yr., s. 6 to 10 ins.	.04½	.04
Cornus elegantissima		
1400 1-yr., tr. 1½ to 2 ft.	.30	.28
Cornus mas		
450 2-yr., tr. 15 to 18 ins.	.25	.22
Cotoneaster divaricata		
3600 2-yr., tr. 12 to 15 ins.	.32	.28
750 2-yr., tr. 1½ to 2 ft.	.40	.35
Cydonia japonica		
2300 1-yr., s. 6 to 12 ins.	.04½	.04
Deutzia gracilis, bushy		
700 1-yr., 6 to 9 ins.	.14	.12
Eunonymus a. compactus		
3600 2-yr., tr. 9 to 12 ins.	.45	.35
1700 2-yr. pots	.30	.28
Eunonymus radicans Sarcocoe		
1700 1-yr., 6 to 10 ins.	.22	.20
Hydrangea A. G.		
400 1-yr., No. 1	.14	.13
Ilex c. convexa		
125 3-yr. pots	.35	
Ilex verticillata		
750 2-yr., tr.	.18	.15
Juniperus chin. pfitzeriana		
10,000 1-yr. pots	.25	.22
Juniperus chin. pfit. compacta		
Kallay		
650 2-yr. pots	.32	.30
Juniperus chin. pfit.		
500 2-yr. pots	.28	.25
3875 2-yr., tr. 6 to 10 ins.	.40	.35
Pyraecantha c. lalandi		
4500 2½-in. plant bands	.24	.20
Myrica pennsylvanica		
250 2-yr., s.	.16	.14
1750 2-yr., s. 8 to 10 ins.	.40	.30
Picea pungens moerhousii		
400 pot grafts	1.25	1.20
350 1-yr. from grafts	1.75	1.65
Sorbus aucuparia		
150 2-yr., tr. 12 to 18 ins.	.30	
125 2-yr., tr. 1½ to 2 ft.	.35	
Spirea Anthony Waterer		
1000 2-yr. tr. bushy	.22	.18
Synanthracanthus hancei		
500 2-yr., tr. 8 to 12 ins.	.35	.30
Taxus cuspidata		
1650 3-yr., tr.	.50	.48
2900 3-yr., TT, root-pruned	.60	.55
440 4-yr., s. 8 to 10 ins.		
TT, sheared	.55	.48
Taxus cuspidata capitata		
8000 4-yr., 10 to 15 ins.		
cutting-grown, TT	.55	.48
500 4-yr., tr. bed	.58	.53
Taxus cuspidata thayerae		
370 2-yr. pots	.30	.28
Taxus densata		
2000 2-yr., tr.	.45	.43
450 5-yr., tr. for canning	1.35	1.25
Taxus media henryi		
500 2-yr. pots	.32	.30
Taxus media andersoni		
1600 4-yr., tr.	.80	.75
2300 2-yr., tr.	.35	.32
575 4-yr., tr.	.90	.85
Taxus media halloran		
350 5-yr., 10 to 12 ins., TT,		
sheared	.80	.75
350 5-yr., tr. for canning	1.25	1.10
Taxus media henryi		
300 5-yr., tr. for canning	1.25	1.10
Taxus media hicksii		
6700 4-yr., s. 8 to 10 ins., TT,		
sheared	.55	.48
Taxus wellsi		
270 4-yr., s. 8 to 10 ins.	.55	.48
Thuja occ. compacta		
150 2-yr., tr.	.40	.35
Thuja occ. hoveyi		
1500 2-yr. pots	.25	.22½
Thuja occ. woodwardii		
8600 1-yr. pots	.20	.18
Tsuga canadensis		
100 5-yr., 10 to 15 ins.	.75	.70
Viburnum carlesii		
1800 pot grafts	.50	.45
Viburnum opulus nanum		
750 2-yr. pots	.30	.28
Weigela vaniceki		
1900 1-yr., No. 1	.25	.20

THE COTTAGE GARDENS
Nick I. W. Kriele, Harold E. Hicks
2707 W. St. Joseph St., Lansing 17, Mich.
Phones IV 2-9021 or 2-9276

ROOTED CUTTINGS FROM OPEN FRAMES
EUNYMIUS, radicans upright, Sarcocoe;
Buxus sempervirens, 2½-in. each.
DANEGGER'S HI-WAY NURSERY, INC.
Box 336 Milford, Del.

BARBERRY Each 100 1000
Green, 2-yr. seedlings, lining-out. \$0.03 \$0.02½
Green, 2-yr. seedlings, branched, 6 to 9 ins. .03½ .03
Red, 2-yr. seedlings, lining-out. .04½ .04

POT-GROWN GRAFTS, MAY SHIPMENT.

All our understocks are potted up during the spring, grown in frames in pots all winter and grafted the following winter, ensuring the best root system to be grown and assure minimum losses.

	Per 100
Abies nobilis glauca	\$100.00
Abies pinsapo glauca	100.00
Acer pal. atropurpureum	75.00
Acer dissectum atropurpureum	75.00
Carpinus betulus fastigiata	60.00
Cedrus atlantica aurea	100.00
Cedrus atlantica glauca	75.00
Cherries, Kwanzan and Weeping (root grafts)	20.00
Cornus florida rubra	50.00
Cornus florida rubra Prosser	65.00
Cornus florida pendula	60.00
Cornus florida flore-plena	60.00
Cornus florida weichi var.	65.00
Cornus florida rubra (root grafts)	25.00
Cornus kousa chinensis	60.00
Cornus kousa speciosa	60.00
Hamamelis mollis	50.00
Hamamelis brevipedata	100.00
Fagus sylvatica Tricolor	75.00
Fagus sylvatica riversi	60.00
Fagus sylvatica pendula	60.00
Fagus sylvatica heterophylla	60.00
Fagus sylvatica fastigiata	60.00
Malus Almey (root grafts)	20.00
Magnolia stellata	75.00
Magnolia stellata rubra	75.00
Magnolia stellata Waterlily	75.00
Magnolia parviflora	75.00
Magnolia yulan	75.00
Magnolia cordata (yellow)	75.00
Picea pung. glauca moerhousii	100.00
Pinus cembra	60.00
Pinus, Tanyosho	60.00
Viburnum carlesii	50.00
Viburnum juddi	50.00
Viburnum burkwoodii	50.00
Viburnum chenaultii	50.00

Varieties marked with a star can be supplied in 1-yr. field-grown bedded plants, at \$15.00 per 100 extra above the pot-grown grafts.

SEEDLINGS AND TRANSPLANTS.

	100	1000
Abies concolor, 2-yr. seedlings	\$ 7.00	\$ 65.00
Abies douglasii, 2-yr. seedlings	4.00	35.00
Abies douglasii, 3-yr. seedlings	6.00	50.00
Acer palmatum, 1-yr. seedlings	6.00	60.00
Biota orientalis, 2-yr. seedlings	3.50	30.00
Cornus florida, 1-yr. seedlings	6.00	60.00
Cornus kousa, 1-yr. seedlings	11.00	100.00
Ilex opaca, 2-yr. seedlings	11.00	100.00
Tsuga canadensis, 2-yr. transplants, 4 to 6 ins.	9.00	90.00
3-yr. transplants, 6 to 8 ins.	16.00	150.00
4-yr. transplants, 9 to 12 ins.	27.50	250.00
5-yr. transplants, 12 to 15 ins.	50.00	450.00
Picea excelsa, 3-yr. seedlings	3.50	30.00
Picea pungens, 3-yr. seedlings	4.50	40.00
Pinus austriaca, 2-yr. seedlings	7.00	60.00
Pinus sylvestris, 2-yr. seedlings	2.00	20.00
Pinus densiflora, 2-yr. seedlings	6.00	50.00
Pinus mughus, 2-yr. seedlings	5.50	50.00
Pinus thunbergii, 2-yr. seedlings	8.00	75.00
Pinus strobus, 2-yr. seedlings	4.50	40.00
Pinus resinosa, 2-yr. seedlings	6.00	50.00
Viburnum thierum, 1-yr. seedlings	10.00	90.00
Acer pal. atrop. 1-yr. seedlings	15.00	125.00

Special prices on large quantities. List on demand.

VERKADE'S NURSERIES, WAYNE, N. J.

EVERGREENS

	Per 100
Juniperus pfitzeriana comp., 2½-in. pots	\$25.00
Juniperus glauca helzi, 2½-in. pots	20.00
Taxus Adams, 2½-in. pots	25.00
Taxus cuspidata, 2½-in. pots	25.00
Taxus hatfieldi, 2½-in. pots	25.00
Thuja pyramidalis, 2½-in. pots	20.00
Thuja woodwardii, 2½-in. pots	22.50

SHRUBS

Berberis Crispum Pygmy, 2½-in.	25.00
Philadelphus aureus, 2½-in.	15.00
1-YR. BEDDED CUTTINGS	
Taxus cuspidata	15.00
Taxus hicksii	15.00
Thuja pyramidalis imp.	12.00
Juniper, Andorra	12.00
Thuja elegantissima	12.00
Thuja sibirica	12.00
Juniper, Pfitzer	12.00

THE HOLLANDIA GARDENS
South Vienna, O.

LINING-OUT STOCK

2½-in. rose pots. Ready for field.	Per 100	Per 1000
Juniperus, chin. pfitzeriana	\$15.00	\$140.00
chin. pfitzeriana glauca	16.00	150.00
excelsa stricta	16.00	150.00
hibernica fastigiata	16.00	150.00
keteleeri	16.00	150.00
Swedish	16.00	150.00
sabina	16.00	150.00
sabina Von Ehron	16.00	150.00
virginiana burki	20.00	190.00
Ilex cornuta femina	16.00	150.00
Ilex cornuta burfordi	16.00	150.00
Nandina domestica	11.00	100.00
Photinia serrulata	15.00	140.00
Ligustrum Vicary	15.00	140.00

In moisture-proof, lightweight cartons.

EMIL R. BRESSER
FLORIST & NURSERYMAN
P. O. Box 973 Muskogee, Okla.

LINING-OUT STOCK

	Per 100	Per 1000
Acer platanoides		
1-yr. seedlings, 4 to 6 ins.	\$ 5.50	\$ 45.00
1-yr. seedlings, 6 to 9 ins.	6.50	55.00
1-yr. seedlings, 9 to 12 ins.	7.50	65.00
2-yr. TFR, 15 to 18 ins.	16.50	130.00
2-yr. TFR, 18 to 24 ins.	18.50	150.00
Azalea hinodegiri		
3-yr. T beds, 6 to 9 ins.	65.00	600.00
Berberis thunbergii		
2-yr. TFR, 9 to 12 ins.	8.50	75.00
Berberis thun. atropurpurea		
2-yr. TFR, 9 to 12 ins.	9.50	85.00
Cornus florida, 1-yr. seedlings	5.00	45.00
1-yr. seedlings, grafting	6.00	50.00
Cornus florida rubra		
1-yr. grafts, beds	90.00	850.00
3-yr. grafts, TFR		
18 to 24 ins.	200.00	1750.00
Cydonia japonica		
1-yr. seedlings, 6 to 9 ins.	4.50	35.00
1-yr. seedlings, 9 to 12 ins.	5.50	45.00
Eunonymus vegetus, 2-yr.		
TFR, 6 to 9 ins.	35.00	300.00
Fagus sylvatica, 2-yr. TFR, grafting, 6 to 9 ins.	12.00	100.00
2-yr. TFR, 9 to 12 ins.	15.00	140.00
Ginkgo biloba, 1-yr. seedlings	8.00	75.00
Liquidambar styraciflua		
1-yr. seedlings, 4 to 6 ins.	7.00	65.00
1-yr. seedlings, 6 to 9 ins.	8.50	80.00
3-yr. TFR, 2 to 3 ft.	75.00	700.00
Pieris japonica, 1-yr. T beds	15.00	100.00
Pieris japonica, 2-yr. T beds	35.00	300.00
Pieris japonica, 2-yr. T beds	45.00	400.00
Prunus aer. fuge. weitchi, 3-yr. TFR, 6 to 6 ft. whips	100.00	900.00
Quercus palustris		
1-yr. seedlings, 6 to 9 ins.	8.00	75.00
3-yr. TFR, 18 to 24 ins.	50.00	450.00
staked	65.00	600.00
3-yr. TFR, 2 to 3 ft.		
staked	65.00	600.00
Sorbus aucuparia		
2-yr. TFR, 18 to 24 ins.	25.00	200.00
2-yr. TFR, 2 to 3 ft.	30.00	250.00
3-yr. TFR, 5 to 6 ft. whips	100.00	900.00
Tilia cordata, 1-yr. seedlings, beds		
4 to 6 ins.	8.50	80.00
6 to 9 ins.	10.00	95.00
9 to 12 ins.	12.00	110.00
15 to 18 ins.	15.00	135.00
Tilia cordata, 3-yr. TFR		
4 to 5 ft. staked	75.00	650.00
Viburnum dilatatum, 1-yr. seedlings, 9 to 12 ins.	5.00	45.00
T—once transplanted; TT—twice transplanted; FR—field row.		

BOULEVARD NURSERIES
Newport, R. I.
Phone VI 6-1263

STRONG LINERS

Heavy plants for potting.	
Leucothoe, 8 to 10 ins.	\$0.50
Pieris japonica, 8 to 10 ins.	.50
Rhododendron hybrids, 6 to 10 ins.	.50
10 to 12 ins.	.75
Azalea mollis, budded, 9 to 12 ins.	.75
12 to 15 ins.	1.00
Ilex rotundifolia, 12 to 15 ins.	.35
extra heavy, 12 to 15 ins.	.45

Samples at cost.

DUGAN NURSERIES, INC.

Center St. Perry, O.
South of Route U.S. 20, east of Painesville.

L. I. GROWN LINING-OUT STOCK

2-yr.-old, lath-grown and sheared	100
800 Taxus thayerae cusp., 8 to 10 ins.	\$35.00
1350 Taxus hicksii, 8 to 10 ins.	35.00
500 Taxus capitata, 10 ins.	40.00
2000 Taxus intermediata cusp., 8 to 10 ins.	35.00
3800 Hets Juniper, 10 to 12 ins.	35.00
2000 Pieris japonica, 12 to 14 ins.	60.00
2000 Ilex convexa bullata, 9 to 10 ins.	40.00
900 Ilex crenata, 9 to 12 ins.	40.00

BRAND'S NURSERY

Huntington, L. I., N. Y.
Phone: Hamilton 3-2456

LINING-OUT STOCK

Pfitzer Juniper, 6 to 8 ins., 1-yr.	\$0.06
Pfitzer Juniper, 8 to 12 ins., 1-yr.	.10
Pfitzer Juniper, 8 to 12 ins., 2-yr.	.12
Pfitzer Juniper, 10 to 15 ins., 2-yr.	.16
Ilex burfordi, heavily rooted	.03
Ilex rotundifolia, heavily rooted	.03
Ligustrum lucidum, well-rooted	.03
Eunonymus patens, 3 to 5 ins.	.02

E. F. DuBOISE NURSERY

Huntsville, Ala.

LINERS, READY MAY 15

4000 Andromeda	\$0.20 each
8000 Azalea Hino-Crimson	.14 each
500 Azalea amoena	.14 each
700 Azalea ledifolia	.14 each
500 Azalea indica magnifica	.14 each
1000 Azalea Lavender Queen	.14 each
1000 Azalea benckei	.14 each

HICKORY HILL NURSERY

R. F. D. 2 Northport, L. I., N. Y.

2½-IN. POTTED LINERS, 10c EACH

Eunonymus japonicus, Burford Holly, Pfitzer Juniper, Pfitzer Hets Juniper, Pyraecantha lalandi, Nandina, Mammolia grandiflora.	
ROOTED CUTTINGS, 5c EACH	
Pfitzer Juniper, Boxwood, Eunonymus japonicus, large red-berried Pyraecantha, wax-leaved Ligustrum, Burford Holly.	

CARDEN'S NURSERY & CUT FLOWERS
4201 North St. Ft. Smith, Ark.

LINING-OUT STOCK—Continued

LINING-OUT LIST PRICES SUBJECT TO CHANGE WITHOUT NOTICE.		
ALL POTTED LINERS ON THIS LIST ARE PRICED FOR SHIPMENT IN PAPER POTS OR CUPS. MINIMUM QUANTITIES: OR- DERS FOR 25 TO 249 OF A VARIETY IN ONE SIZE TAKE THE 100 RATE. ORDERS FOR 250 OR MORE OF A VARIETY IN ONE SIZE TAKE THE 1000 RATE.		
	EACH.	1000
BIOTA AUREA NANA		
2 1/4-in. pots	..\$0.16	\$0.15
BIOTA BAKERI		
2 1/4-in. pots	..16	15
2 1/4-in. pots	..13	17
BIOTA BONITA		
2 1/4-in. pots	..16	15
2 1/4-in. pots	..13	17
BIOTA BONITA, UPRIGHT		
2 1/4-in. pots	..13	16
2 1/4-in. pots	..20	18
BIOTA EXCELSA		
2 1/4-in. pots	..17	15
2 1/4-in. pots	..19	17
BIOTA BIBILI		
2 1/4-in. pots	..18	17
BLUE LAWSON CYPRESS		
2 1/4-in. pots	..17	15
2 1/4-in. pots	..19	17
JUNIPER, ANDORRA		
2 1/4-in. pots	..16	15
2 1/4-in. pots	..18	17
JUN. CHIN. PFITZERIANA COMP.		
2 1/4-in. pots	..17	16
2 1/4-in. pots	..19	17
JUN. CHIN. PFITZERIANA NANA		
2 1/4-in. pots	..22	20
2 1/4-in. pots	..27	25
JUN. EXCELSA STRICTA		
2 1/4-in. pots	..17	16
2 1/4-in. pots	..19	18
JUN. GLAUCOA HETZI		
2 1/4-in. pots	..18	16
2 1/4-in. pots	..20	18
JUN. HIBERNICA PASTIGIATA		
2 1/4-in. pots	..17	16
2 1/4-in. pots	..18	17
JUN. HORIZONTALIS DOUGLASI (Waukegan Juniper)		
2 1/4-in. pots	..20	18
JUN. SABINA TAMARISCIPOLIA		
2 1/4-in. pots	..20	..
2 1/4-in. pots	..22 1/2	..
THUJA OCC. PYRAMIDALIS		
2 1/4-in. pots	..17	16
2 1/4-in. pots	..18	17
THUJA OCC. HETZ'S WINTER GREEN		
2 1/4-in. pots	..17	16
TAXUS CUSPIDATA		
2 1/4-in. pots	..19	17
2 1/4-in. pots	..20	18
TAXUS MEDIA HICKSI		
2 1/4-in. pots	..19	17
2 1/4-in. pots	..20	18
TAXUS MEDIA SIEBOLDI		
2 1/4-in. pots	..19	17
ARELIA GRANDIFLORA		
2 1/4-in. pots	..13	12
8x12 ins., TT. field-grown	..16	17
12x15 ins., TT. field-grown	..18	17
BERBERIS JULIANAE		
2 1/4-in. pots	..20	18
2 1/4-in. pots	..22 1/2	20
BERBERIS SARGENTI		
2 1/4-in. pots	..18	16
2 1/4-in. pots	..20	18
BUXUS JAPONICA		
Rooted cuttings	..08	06
2 1/4-in. pots	..13	12
2 1/4-in. pots	..15	14
BUXUS SEMPERVIRENS		
2 1/4-in. pots	..17	16
2 1/4-in. pots	..19	18
BUXUS SEMPERVIRENS CRONI		
2 1/4-in. pots	..20	18
BUXUS SUFFRUTICOSA		
2 1/4-in. pots	..18	16
2 1/4-in. pots	..20	18
CAMELLIA SASANQUA MAIDEN'S BLUSH		
3-in. peat pots	..20	18
COTONEASTER PARNEYI		
2 1/4-in. pots	..18	17
ELAEAGNUS FRUITLANDI		
2 1/4-in. pots	..16	15
2 1/4-in. pots	..18	17
EUONYMUS MICROPHYLLUS		
PULCHELLUS		
2 1/4-in. pots	..17	15
EUONYMUS RADICANS ERECTUS		
2 1/4-in. pots	..16	15
EUONYMUS PATENS, small-leaved		
2 1/4-in. pots	..14	12
GARDENIA FORTUNEI		
2 1/4-in. pots	..15	14
2 1/4-in. pots	..16	15
GARDENIA RADICANS		
2 1/4-in. pots	..15	14
ILEX CORNUTA FEMINA		
2 1/4-in. pots	..20	..
ILEX CORNUTA, seedlings		
2 1/4-in. pots	..14	12
2 1/4-in. pots	..16	14
ILEX CORNUTA BURFORDI		
2 1/4-in. pots	..15	14
2 1/4-in. pots	..16	15
ILEX CRENATA CONVEXA BULATA		
2 1/4-in. pots	..17	16
ILEX CRENATA HETZI		
2 1/4-in. pots	..15	14
2 1/4-in. pots	..16	15

(Continued in next column)

(Continued from previous column)		
ILEX CRENATA REPANDENS		
2 1/4-in. pots	..15	14
ILEX CRENATA ROTUNDIFOLIA		
2 1/4-in. pots	..15	14
2 1/4-in. pots	..16	15
ILEX OPACA FEMINA		
2 1/4-in. pots	..22 1/2	20
2 1/4-in. pots	..25	22 1/2
ILEX OPACA EAST PALATKA		
2 1/4-in. pots	..16	15
2 1/4-in. pots	..18	17
CHERRY LAUREL		
6x8-in. seedlings	..08	06
2 1/4-in. pots	..12	11
LIGUSTRUM IONANDRUM		
Introduced by U. S. Gov- ernment from the Orient. Foliage leaves are as small as those of Ilex crenata. Will form a perfect spec- imen by natural growth without shearing.		
2 1/4-in. pots	..14	12
LIGUSTRUM LUCIDUM COMPACTUM		
2 1/4-in. pots	..16	15
2 1/4-in. pots	..17	16
LIGUSTRUM SIN. PENDULA (Weeping Amur River South Privet)		
2 1/4-in. pots	..11	10
NANDINA DOMESTICA		
2x3-in. seedlings	..06	05
2 1/4-in. pots	..11	10
2 1/4-in. pots	..13	12
2 1/4-in. pots	..18	16
PHOTINIA SERRULATA		
2x3-in. seedlings	..02 1/2	02
2 1/4-in. pots	..18	16
2 1/4-in. pots	..20	18
PODOCARPUS SINENSIS		
2 1/4-in. pots	..15	14
2 1/4-in. pots	..16	15
PYRACANTHA BELLI		
2 1/4-in. pots	..19	18
2 1/4-in. pots	..21	20
PYRACANTHA COCCINEA LALANDI		
2 1/4-in. pots	..17	16
2 1/4-in. pots	..18	17
PYRACANTHA YUNNANENSIS		
2 1/4-in. pots	..17	16
TEUCRIUM CHAMAEDRYS		
2 1/4-in. pots	..13	10
VIBURNUM TINUS		
2 1/4-in. pots	..13	12
2 1/4-in. pots	..16	15
BERBERIS THUN. ATROPURPUREA		
2 1/4-in. pots	..11	10
2 1/4-in. pots	..13	12
CORNUS FLORIDA		
6x8-in. seedlings	..06	04
2 1/4-in. pots	..12	10
LIQUIDAMBAR STYRACIPLUA (Sweet Gum)		
4x6-in. seedlings	..06	03
6x8-in. seedlings	..06	04
8x12-in. seedlings	..08	06
12x15-in. seedlings	..10	08
SPHAEAE ANTHONY WATERER		
2 1/4-in. pots	..10	08
SPECIAL NOTICE: ITEMS MARKED BY (*) ASTERISK WILL BE AVAILABLE FOR DELIVERY LATE SPRING OF 1959. ALL ITEMS NOT SO MARKED ARE READY FOR IMMEDIATE SHIPMENT OR LATER SHIPMENT TO SUIT CUSTOMERS' RE- QUIREMENTS.		
T. G. OWEN & SON, INC. Columbus, Miss.		
EVERGREENS		
Andorra Juniper, 6 to 8 ins., bare-root	..\$0.05	
Blue Hetz Juniper, 6 to 8 ins., bare-root	..05	
Burk Juniper (upright), 6 to 10 ins., bare-root	..14	
Pfitzer Juniper, 6 to 10 ins., 2-yr., bare- root	..07	
Pfitzer Juniper, plant bands	..16	
Von Ehrhorn Juniper, 6 to 10 ins., bare- root	..08	
Spreading Jap. Yew (Taxus cuspidata), 3-yr., 6 to 10-in. plant bands	..20	
DECIDUOUS, BARE-ROOT		
Blue-leaved Arctic Willow, 10 to 12 ins.	..06	
Aithya Lucy, double red; 6 to 8 ins.	..05	
Foraythia Spring Glory, 6 to 12 ins.	..04	
Hypericum Hidecote, 6 to 8 ins.	..06	
Hypericum kalmianum, 6 to 8 ins.	..06	
Honeysuckle (vine), heckrotti, giant flowering, everblooming	..05	
Privet, Chinese (Wayside Gardens strain) evergreen in zone 5, 8 to 12.	..04	
Privet, Lodense, 8 to 12 ins.	..05	
BROADLEAFS		
Euonymus patens Flagpole (small- leaved), 6 to 10 ins.; grows 2 ft. tall	..04	
Euonymus patens Newport (medium leaved); 6 to 10 ins.; grows 3 to 4 ft. tall	..04	
Euonymus patens Rosehill (medium leaved); 6 to 10 ins.; grows 3 to 4 ft. tall	..04	
Euonymus coloratus, 6 to 10 ins.	..04	
Purdie-leaved (Texas) Honeysuckle vine, 6 to 12 ins.	..05	
Variegated-leaved (Gold Net) Honey- suckle vine, 10 to 12 ins., 2-yr.	..06	
PERENNIALS		
Teucrium chamaedrys, 4 to 6 ins.	..04	
Less than 300 total order, 2c more per plant. Less than 50 of any item, 4c more per plant.		
McININCH GREENHOUSES St. Joseph, Mo.		

POTTED LINERS, 2 1/4-IN. ROSE POTS		
Azalea Palestine	10-25	100
Azalea Sherwood Red	3.00	20.00
Berberis julianae	2.50	25.00
Berberis thunbergii atropurpurea		
Crimson Pymy	3.50	25.00
Berberis triacanthophora	3.50	25.00
Buxus korana	3.00	20.00
Buxus sempervirens	3.00	20.00
Chamaecyparis cyano viridis	3.00	20.00
Chamaecyparis plumosa aurea	3.00	20.00
Cham. plumosa sulphurea	3.00	20.00
Cotoneaster conspicua decidua	3.00	20.00
Franklinia alatomahia	4.00	35.00
Ilex cornuta burfordi	4.00	30.00
Ilex crenata convexa	3.00	20.00
Ilex crenata helleri	3.00	20.00
Ilex crenata microphylla	3.00	20.00
Ilex crenata rotundifolia	3.00	20.00
Ilex glabra	3.00	20.00
Ilex opaca (4 to 6 ins. in the following named varieties)	5.00	40.00
Arden, Christmas Tide, Farago, Lake City, Manig, Cheerful, Della Bradley, Hedge Holly, Mae, Osa.		
Ilex opaca maculosa	5.00	40.00
Juniperus depressa plumosa	3.00	20.00
Jun. horizontalis wilsoni glauca	3.00	20.00
Juniperus glauca hetzi	3.00	20.00
Magnolia rustica rubra	4.00	35.00
Magnolia soulangeana	4.00	35.00
Magnolia stellata	4.00	35.00
Magnolia Pink Alba	4.00	35.00
Mahonia bealei	3.00	22.50
Pieris japonica	3.00	20.00
Prunus laurocerasus schipkaensis	3.50	30.00
Pyracantha coccinea lalandi	3.00	20.00
Rhododendron wilsoni	5.00	40.00
Sarcococca hookeriana humilis	3.00	20.00
Taxus bacata repandens	3.50	25.00
Taxus cuspidata	3.50	25.00
Taxus cuspidata aurea	3.50	25.00
Taxus cuspidata capitata	3.50	25.00
Taxus cuspidata compacta	3.50	25.00
Taxus cuspidata densiformis	3.50	25.00
Taxus cuspidata F & F. compacta	3.50	25.00
Taxus cuspidata nana	3.50	25.00
Taxus media browni	3.50	25.00
Taxus media clifforti	3.50	25.00
Taxus media Halloran	3.50	25.00
Taxus media hatfieldi	3.50	25.00
Taxus media henryi	3.50	25.00
Taxus media hicksii	3.50	25.00
Taxus media vermeulenii	3.50	25.00
Taxus media wardeni	3.50	25.00
Thuja occ. globosa Howe type	3.00	20.00
Thuja occ. globosa novum	3.00	20.00
Viburnum bithyense	3.50	25.00
Viburnum fragrans	3.50	25.00
HESS' NURSERIES		
P. O. Box 128	Wayne, N. J.	
LINING-OUT STOCK		
2-yr. transplants	Each	100 1000
Taxus media hicksii	..\$0.35	\$0.35
Taxus media hatfieldi	..35	30
Taxus media browni	..35	30
Taxus media Halloran	..35	30
Taxus media henryi	..35	30
Taxus cuspidata	..35	30
Taxus cuspidata thayerae	..35	30
Taxus capitata, 2-yr. seedlings, 4 to 6 ins.	..10	08 1/2
Write for complete list.		
IMPERIAL NURSERIES		
P. O. Box 1000	East Hartford, Conn.	
QUALITY LINERS		
FROM OPEN FIELD BEDS	Per 100	
Taxus cuspidata, 2-yr., tr., 8 to 10 ins.	..\$25.00	
Taxus cuspidata, 2-yr., tr., 10 to 12 ins.	..30.00	
Taxus cuspidata, 1-yr., tr.	..16.00	
Thuja woodwardi (globe), 2-yr., tr.	..26.00	
Euonymus alatus compactus, 1-yr., tr.	..15.00	
Euonymus vegetus, 2 1/4-in. pots	..20.00	
Azalea mollis, 1-yr., tr. flats	..6.00	
Packing free and 2 per cent discount if cash accompanies order.		
LINCOLN NURSERIES		
R. D. 2	Grand Rapids 4, Mich.	
TAXUS		
	100	1000
Capitata, 3-yr. seedlings,		
4 to 8 ins.	..\$15.00	\$125.00
Capitata, 4-yr. transplants,		
6 to 10 ins.	..35.00	300.00
Cuspidata densiformis, 2-yr. transplants	10-25	100
Media Moon's columnaris, 2-yr. transplants	..\$4.75	\$40.00
For grafted stock, see our display ad.		
HESS' NURSERIES		
P. O. Box 128	Wayne, N. J.	
FINE LINERS		
Labor is your biggest expense and time your greatest opportunity. Don't waste either with "SECOND-BEST" varieties or quality. Ask for our free descriptive catalog of FINE LINERS. We offer dependable qual- ity at service.		
JOHN VERMEULEN & SON, INC.		
Finer liners since 1921		
Neahanic Sta., N. J.		
CHERRY LAUREL LINERS		
2 1/4-in. pots	10c	
Qt. cans	12c	
BIG RIVER NURSERY, DUNDEE, MISS.		

LINING-OUT STOCK		Per 100	Per 1000
(EACH) (EACH)			
*Althaea Lady Stanley (semi-double white, pink center)	1-yr. grafts	\$.25	...
*Althaea Woodbridge (large single pink), 1-yr. grafts	...	.25	...
Cotoneaster divaricata, 1-yr. seedlings	...	.12 1/2	\$0.10
*Eunymus vegetus, strong	2-yr., T. heavy	.30	.25
*Fagus sylvatica riveria (River's Purple Beech), 2-yr. grafts, 12 to 18 ins.	...	1.75	1.50
*Forsythia Beatrice Farrand (NEW), 1-yr., T. softwood cuttings	...	.30	.25
*Forsythia Lynwood Gold, 1-yr., T. softwood cuttings	...	.18	.15
*Forsythia Spring Glory, 1-yr., T. softwood cuttings	...	.18	.15
*Hydrangea hortensis (hardy), deep pink, compact grower, 2-yr., T.	...	.50	.45
Illex compacta, 2-yr., T.	...	.40	.35
Illex glabra compacta, 2-yr., T.	...	.40	.35
Illex latifolia, 2-yr., T.	...	.40	.35
Illex rotundifolia, 2-yr., T.	...	.40	.35
Juniper, Andorra, 2-yr., T.	...	.40	.35
Juniperus hetzi, 2-yr., T.	...	.40	.35
Juniperus pfitzeriana glauca, 2-yr., T. from cuttings	...	.40	.35
*Leucoloe catesbaei, strong	3-yr., T.	.40	.35
*Pieris japonica (Andromeda japonica), 3-yr., T. 9 to 12 ins.	...	.50	.45
Taxus brevifolia (nana), 2-yr., T.	...	.45	.40
Taxus cuspidata, apertum, ing. 2-yr., T.	...	.45	.40
Taxus intermedia, 2-yr., T.	...	.45	.40
Thuja woodwardi, 2-yr., T.	...	.35	..
Viburnum tomentosum (true), 1-yr., T. softwood cuttings, 8 to 12 ins.	...	.25	.20
*Vitis macrophylla (true), 2-yr. bedded, 18 to 24 ins.	...	.40	.35
*Weigela vaniceki, 1-yr., T. softwood cuttings	...	.25	.20
TRADE AND CANNING			
See other listings under Azaleas, Maples, Helleborus, Taxus and Viburnum.			
C. HOOGENDOORN, NURSERYMAN			
413 Turner Rd. Newport, R. I.			

GOLDEN GOOSE LINERS

For immediate delivery or for reservation. All quotations are for beautiful lining-out stock from 2 1/2-in. pots, grown in open beds under field conditions and ready for field planting.	
Illex cornuta burfordi, 10 to 12 ins.	Per 100 \$10.00
Illex cornuta burfordi, 6 to 8 ins.	8.00
Illex cornuta femina, 8 to 10 ins.	10.00
Illex cornuta femina, 6 to 8 ins.	8.00
Illex crenata rotundifolia, 10 to 12 ins.	12.00
Illex crenata rotundifolia, 8 to 10 ins.	10.00
Illex crenata rotundifolia, 6 to 8 ins.	8.00
Illex crenata rotundifolia, 4 to 6 ins.	10.00
Illex crenata microphylla, 8 to 10 ins.	12.00
Eunymus radicans, 8 to 10 ins.	8.00
Eunymus radicans, 6 to 8 ins.	6.00
Ligustrum lucidum compactum, 8 to 10 ins.	12.00
Cleyera japonica, 8 to 10 ins.	12.00
Buxus harlandi, 4 to 6 ins.	8.00

Our Hollies are grown from either cuttings or grafts, from well-berried specimens, ensuring berries for you.

This stock guaranteed 100 per cent satisfactory or return for full refund.

TERMS: Packing without cost. 25 per cent with order, balance C.O.D. Minimum \$5 of a kind, please.

EVERGREEN NURSERIES	
Germantown, Tenn.	
LINING-OUT STOCK	
We need the room. Now is the time to stock up on this item.	
12,000 Juniperus glauca hetzi, 2 1/2-in. rose pots, \$11.00 per 100, \$100.00 per 1000.	
In moisture-proof, lightweight cartons.	
EMIL R. BRESSER	
FLORIST AND NURSERYMAN	
P. O. Box 973 Muskogee, Okla.	
EVERGREENS, ROOTED CUTTINGS	
GRAFTS	
Choice selection in Arborvitae, Junipers, rare Pines, Koster's Blue Spruce, Moerhelm Blue Spruce and Taxus in variety.	
Send for new list out now.	
TRAUTMAN NURSERIES	
LINING-OUT STOCK	
Azalea kaempferi, 2-yr., TT	Each, 100 \$0.20
Arborvitae woodwardi globe, 2-yr., T.	.20
Illex hetzi, 2 1/2-in. peat pots	.20
On larger quantities, write for special quotations.	
CHAMPION NURSERIES	
Perry, O.	

LINING-OUT STOCK		100	1000
Bedded 1-yr. in the open.		100	1000
Illex convexus	...	\$20.00	\$180.00
Illex rotundifolia	...	20.00	180.00
Illex hetzi	...	20.00	180.00
Juniperus pfitzeriana	...	20.00	180.00
Juniperus hetzi	...	20.00	180.00
Taxus andersoni	...	20.00	175.00
Taxus brevifolia	...	20.00	175.00
Taxus capitata, cutting-grown	...	25.00	225.00
Taxus capitata Adams	...	25.00	225.00
cutting-grown	...	25.00	225.00
Taxus canadensis stricta	...	16.00	160.00
Taxus cuspidata	...	17.50	160.00
Taxus hatfieldi	...	17.50	160.00
Taxus hunnewelliana	...	17.50	160.00
Taxus hicksii	...	17.50	160.00
Taxus intermedia	...	17.50	160.00
Taxus henryi	...	20.00	175.00
Taxus densiformis	...	20.00	175.00
Taxus vermeuleni	...	17.50	160.00
Taxus wardii	...	17.50	160.00
Taxus Moon's columnaris	...	17.50	160.00
Taxus browni	...	17.50	160.00
2-yr. bedded in the open.	...	...	...
Illex convexus, 6 to 9 ins.	...	\$25.00	\$200.00
Illex rotundifolia, 6 to 9 ins.	...	25.00	200.00
Illex hetzi, 6 to 9 ins.	...	25.00	200.00
Taxus Adams col., 12 to 15 ins.	...	50.00	450.00
Taxus Moon's col., 8 to 12 ins.	...	30.00	250.00
Taxus cuspidata, 6 to 9 ins.	...	30.00	250.00
Taxus hatfieldi, 6 to 9 ins.	...	30.00	250.00
Taxus cuspidata comp.	...	30.00	250.00
6 to 9 ins.	...	30.00	250.00
Taxus hunnewelliana, 6 to 9 ins.	...	30.00	250.00
Taxus browni, 6 to 9 ins.	...	30.00	250.00
Taxus intermedia, 6 to 9 ins.	...	30.00	250.00
TAXUS CAPITATA, SEEDLING-GROWN		100	1000
1-yr. seedlings	...	\$ 6.00	\$ 60.00
2-yr. seedlings	...	10.00	90.00
3-yr. seedlings	...	17.50	150.00
4-yr. seedlings	...	25.00	225.00
planted, 6 to 10 ins.	...	30.00	250.00
CORNUS FLORIDA (WHITE DOGWOOD)		100	1000
Seedlings	...	10.00	100.00
1-yr. No. 1 grade	...	\$ 6.00	\$ 60.00
1-yr. No. 2 grade	...	5.00	40.00
1-yr. No. 3 grade	...	4.00	30.00
2-yr. No. 1 grade	...	12.50	100.00
2-yr. No. 2 grade	...	10.00	90.00
Special prices on large quantities.		...	...
Full list on demand.		...	...

VERKADE'S NURSERIES, WAYNE, N. J.

HEAVILY ROOTED CUTTINGS

We are now booking orders for winter delivery of the following.

Pfitzer Juniper	Berkmans' Arborv.
Baker's Arborvitae	Photinia glabra
Podocarpus	Illex bullata
Gardenia fortunei	Ligustrum lucidum

Prices of above lining-out stock:

Illex burfordi, 3 to 5 ins.....	5.00	40.0
Baker's Arborvitae	Berckmans' Arborv.	
Illex bullata	Buxus harlandi	

Photinia glabra

Prices of above lining-out stock:

4 to 6 ins. transplants	Per 100	Per 1000
4 to 8 ins. transplants	12.50	100.00
4 to 12 ins. transplants	15.00	125.00

Buxus japonica Illex rotundifolia

Gardenia fortunei Gardenia radicans

Gardenia veitchii Gardenia stricta nana

Prices of above lining-out stock:

4 to 6 ins. transplants	Per 100	Per 1000
4 to 8 ins. transplants	10.00	80.00
4 to 12 ins. transplants	12.50	100.00

Mail orders now for 1-yr. Azalea liners.

All varieties Indiana, Kurumea

\$12.00 per 100, \$100.00 per 1000

Book your orders early, for complete selection.

FLOWERWOOD NURSERY, INC.

P. O. Box 185 Cairo, Ga.

Phone 2-4021 or write.

2-YR. HEAVY LINERS, OPEN REDDED

10,000 Taxus canadensis	Each
2,000 Taxus canadensis, tin cuttings	\$0.20

1-YR. LINERS, OPEN BEDDED

12,000 Taxus cuspidata	Each
1,000 Taxus hicksii	.15
2,000 Taxus mooni	.15
3,000 Taxus densiformis	.15
5,000 Taxus canadensis, tin cuttings	.15

ROOTED CUTTINGS OUT OF SAND

20,000 Taxus densiformis	Each
5,000 Taxus mooni	.09
1,000 Taxus hatfieldi	.09
1,000 Taxus hicksii	.09
20,000 Taxus cuspidata	.09
5,000 Taxus canadensis, tin cuttings	.09

Minimum order 250.

Cash with order, please.

LAURENTE NURSERIES, INC.

464 Main St. Agawam, Mass.

Hibiscus Brillante, 2 1/2-in., \$16.00 per 100.

Juniperus sabina tamar, 2 1/2-in., 100, \$20.00.

Feolia sellowiana, 2 1/2-in., \$20.00 per 100.

Ole Olsson Nursery, Inc., 2154 Peck Rd., Monrovia, Calif.

LINERS OF THE BETTER KINDS

Write for price list.

GULF STREAM NURSERY, INC.

Wachapreague, Va.

EVERGREEN LINERS		100	1000
In the open 2-yr. bedded stock.		100	1000
Juniperus hetzi glauca, 12 to 14 ins.	...	\$27.00	\$250.00
10 to 12 ins.	...	25.00	230.00
Juniper, Andorra, 6 to 8 ins.	...	25.00	230.00
Illex rotundifolia, 6 to 10 ins.	...	25.00	200.00
Arborvitae, American (dark green), 10 to 12 ins.	...	27.00	250.00
8 to 10 ins.	...	25.00	230.00
Unnamed Rhododendron hybrids of hardy ponticum, well-branched catawbiense parentage. Good foliage with firm, lightweight ball, twice transplanted, bed-grown, Japanese beetle certified.	...	...	...
6 to 8 ins., \$50.00 per 100, \$250.00 per 1000.	...	...	...
250 plants at 1000 rate. Stock offered subject to prior sale. Free packing. F.O.B. Willoughby. Terms: 2 per cent discount for cash with order, or by express C.O.D. shipment. OPEN SUNDAYS.	...	...	...

Balled and burlapped stock

PICK UP AT NURSERY Each

Juniperus hetzi glauca, 15 to 18 ins. ... \$1.50

Pyramidal Arborvitae, 18 to 24 ins. ... 1.50

Forsythia Spring Glory.50

(Suitable for containers)

LITTLE ACRES NURSERY

R. D. 2, Chardon Rd. Willoughby, O.

R. R. 1, Box 379 Frankville, Wis.

LINING-OUT STOCK

Per 100 Per 1000

2000 Nandinas, 2-yr. tr.

6 to 8 ins. ... \$15.00 \$100.00

1000 Taxus cuspidata, 3-yr.

tr., 8 to 10 ins. ... 30.00 250.00

500 Taxus intermedia, 2-yr.

tr., 6 to 8 ins. ... 30.00 250.00

1000 Illex rotundifolia, 2-yr.

tr., 6 to 8 ins. ... 22.00 200.00

3000 Biota aurea nana, 2-yr.

tr., 6 to 8 ins. ... 22.00 200.00

500 Spiraea A. W., 2-yr. tr.

6 to 8 ins. ... 15.00 100.00

5000 Boxwood, comp., 3-yr.

tr., 8 to 10 ins. ... 40.00 350.00

1500 Viburnum burkwoodi,

2-yr. tr., 10 to 15 ins. ... 22.00 200.00

500 Kolkwitzias, 2-yr. tr.

10 to 15 ins. ... 30.00 250.00

NICK'S NURSERY, ANCHORAGE, KY.

LINING-OUT STOCK

Per 100 Per 500

Taxus hatfieldi, 2-yr., T.

10 to 12 ins. ... \$30.00 \$125.00

cuspidata, 2-yr. T.

12 to 15 ins. ... 25.00 100.00

thayerae, 2-yr. T.

10 to 12 ins. ... 30.00 125.00

hicksii, 2-yr. T.

10 to 12 ins. ... 30.00 125.00

Andromeda (Pieris japonica)

1-yr., T. 3 to 4 ins. ... 10.00 40.00

2-yr., T. 8 to 10 ins. ... 25.00 100.00

3-yr., T. 10 to 12 ins. ... 35.00 150.00

capitata, 10 to 12 ins. ... 30.00 125.00

Write us for prices on quantities of 3000 or more.

SOWAMS NURSERY

Barrington, R. I.

HEAVY LINERS FROM FIELD BEDS

Per 100

Taxus cuspidata, 10 to 15 ins., 4-yr.

TTT ... \$55.00

10 to 12 ins., 3-yr., TT

Taxus capitata, 10 to 12 ins., 3-yr., TT

5 to 10 ins., 2-yr., T

Taxus browni, 10 to 12 ins., 2-yr., TT

Taxus hicksii, 8 to 12 ins., 3-yr., TT

Taxus hatfieldi, 8 to 12 ins., 3-yr., TT

Taxus hunnewelliana, 10 to 12 ins., 3-yr., TT

Above plants, 2-yr., T, \$35.00 per 100.

Eunymus vegetus, 10 to 15 ins., branched

Ribes alpinum, 10 to 15 ins., branched

5204 St. Joe Rd. Fort Wayne, Ind.

LINING-OUT STOCK IN 2 1/2-IN. POTS

Juniperus armstrongii ... \$0.20

Juniperus hetzi glauca18

Juniperus prostrata20

Juniperus pfitzeriana15

Juniperus pfitzeriana, blue20

Juniperus sabina tamariscifolia22

Nerium oleander (single red, salmon, cherry, pink)18

Illex cornuta (cutting)20

Illex cornuta burfordi40

Callistemon lanceolatus20

PACKED FREE AND EXPRESS PREPAID TO ANY POINT IN U. S., except Alaska.

\$ samples shipped express prepaid, \$2.00.

MULHOLLAND NURSERY

LINING-OUT STOCK—Continued

NAUGHER'S JUNIPER LINERS
ANDORRA, ASHFORDI, FASTIGIATA,
GREEK, IRISH, SAVIN,
100, 15c each; 1000, 12½c each.
HETZI, PFITZER, PFITZER COMPACTA,
SAVIN VON EHREN
100, 17½c each; 1000, 15c each.
Field-grown. Root-pruned.
Freshly dug. Never stored.
Fully hardy. FREE PACKING.
Fully dormant. Liberally graded.
1-yr. 6 to 12 in.
50 OR MORE AT 100 RATE.
300 OR MORE AT 1000 RATE.
Write for latest catalog.
NAUGHER NURSERY
Chase, Ala.

LIRIOPIES

LIRIOPIES, HARDY NORTH
Heavy divisions. Will grow in sun or full
shade. 100 100
Majestic (Iliac), wide leaf, green...\$2.00 \$15
Big Blue (Iliac), wide leaf, green... 1.50 10
Muscaria exilliflora, narrow leaf, green 1.25 8
Munro's, white flowering, wide
leaf, green... 3.50 25
Silvery Sunproof, white and green
leaf... 4.50 35
Lilac Beauty, giant green leaves,
tall lilac spikes... 6.50 50
Silvery Midget, wide leaf, white
and green... 5.50 40
Grandiflora, 36 ins., specimen plant. 6.50 50
Gold Banded, wide leaf, semi-dwarf. 12.50 100
Curly Twist, widest leaf, green,
bushy... 2.00 15
Japonica, dainty ground cover... 1.00 4
Riegel's Wonder Evergreen
ground cover... 1.00 4
Christmas Tree, Monroe's No. 2... 12.50 100
50 at 100 rate. Send for list.
RIEGLER PLANT CO., EXPERIMENT, GA.

MAGNOLIAS

ORIENTAL MAGNOLIAS.
2-yr., C.T. liners, heavy roots, liberal grade.
12 to 18 ins. 18 to 24 ins.
Alba superba...\$0.35 \$0.40
Lilliputian... .35 .40
Nigra... .35 .40
Rustica rubra... .35 .40
Soulangeana... .35 .40
Stellata... .35 .40
GRIMES NURSERIES, SEMMES, ALA.

Magnolia grandiflora, 4 to 8 ins., shipped
in pots, 2½-in. or removed, \$15.00 per 100.
1-yr. seedlings for spring 1959, about 4 ins.
high, \$50.00 per 1000. Cash and no charge
for packing.
Harwell Nursery, Van Buren, Ark.

MAPLES

JAPANESE RED MAPLE SEEDLINGS
(ACER PALMATUM ATROPURPUREUM)
Carefully selected, finest Red Maple.
Well-hardened from open field beds, liners
and heavy potting grades in large quantities.
Each 250 or
per 100 more
1-yr. (all red), 8 to 10 ins.\$0.22 \$0.20
2-yr., X, light branched
8 to 10 ins.33 .30
10 to 12 ins.38 .35
12 to 15 ins.46 .43
2-yr., X, heavy grade, branched transplants
6 to 8 ins.\$0.43 \$0.40
8 to 10 ins.48 .45
10 to 12 ins.55 .50
12 to 15 ins.65 .60
3-yr., XX, branched transplants, ready for
6-in. pots (salable)
12 to 15 ins.\$0.80 \$0.75
15 to 18 ins.95 .90
4 and 5-yr., well-branched, heavy grade
10 to 12 ins.\$1.00 \$0.95
12 to 15 ins. 1.25 1.18
15 to 18 ins. 1.60 1.50
18 to 21 ins. 2.00 1.90
21 to 24 ins. 2.75 2.60
Shipped dormant. Packed in sphagnum.
Late fall or early spring.
20 per cent deposit will reserve your order.
HUBBS NURSERIES
Route 130 Riverton, N. J.
Specializing in Japanese Maple seedlings.

NORWAY MAPLE

10 to 50 50 to 100
Each Each
6 to 8 ft.\$2.75 \$2.50
8 to 10 ft. 4.75 4.50
Ask for prices on other sizes.
WAYNESBORO NURSERIES
Waynesboro, Va.

COLLECTED ACER

RUBRUM AND SACCHARUM
from whips to 4-in. caliper.
CURTIS NURSERIES, INC.
Callicoon, N. Y.

ACER PALMATUM SEEDLINGS

See our offer on page 34, this issue.
W. B. CLARKE CO.
P. O. Box 343 San Jose 5, Calif.

RED JAPANESE MAPLE
Your inspection of the plants in foliage
is cordially invited. Per 100 Per 1000
(EACH) (EACH)

*Acer palmatum atropurpureum,
selected types, strong 2-yr.
grafts, 12 to 18 ins.\$1.50 \$1.25
*Acer palmatum atropurpureum
BLOODGOOD, 2-yr. grafts,
12 to 18 ins. 1.75
*Acer palmatum atropurpureum
OSS1 BENI, 2-yr. grafts,
12 to 18 ins. 1.50
*Acer palmatum atropurpureum
OSS1 BENI, 3-yr. grafts... 2.00
*ITEMS SUITABLE FOR MAIL ORDER
TRADE AND CANNING.
C. HOOGENDOORN, NURSERYMAN
413 Turner Rd. Newport, R. I.

NORWAY MAPLE

Straight trunks. Fine heads. Very fibrous
roots.
10-49 50-250
6 to 8 ft.\$3.00 \$2.50
8 to 10 ft., 1 to 1½-in. 4.05 3.25
9 to 11 ft., 1½ to 1¾-in. 5.30 4.25
10 to 12 ft., 1¾ to 1½-in. 7.00 5.50
11 to 13 ft., 1½ to 2-in. 8.00 6.50
PRINCETON NURSERIES
Princeton, N. J.

Acers, saccharum and rubrum, root-pruned,
field specimen, 2-in. to 12-in. caliper.
R. H. ROGERS NURSERY, COOPERSTOWN, N. Y.

ORCHIDS

ORCHIDS
Phaius grandifolius or Nun's Orchid. Ever-
green terrestrial with attractive broad foli-
age. Desirable for house plant and corsage
work. Flowers produced 8 to 15 per spike, 3
ins. across; petals tan above, silver beneath,
purple lip. Pot into any peaty potting soil.
Will bloom 30 to 40 days under glass. Flower-
ing size with bloom spikes showing.
Standard bulb 1 bloom spike (for 5-in.
pot), \$1.10 each, in 10 lot; \$1.00 each, in 100
lot.
Jumbo bulb 2 bloom spikes (for 7-in. pot),
\$1.35 each, in 10 lot; \$1.25 each, in 100 lot.
Shipped via express, bare-root, F.O.B.
Leesburg. Packing free.
FLORIDA NURSERY & LANDSCAPE CO.
P.O. Drawer 281 Leesburg, Fla.
Phone ST 7-2315

PACHYSANDRAS

PACHYSANDRA TERMINALIS
Per 100 Per 1000
1-yr., field-grown\$ 6.00 \$ 45.00
(Lots of 5000, \$40.00 per 1000)
2-yr., field-grown 7.50 70.00
2½-in., pot-grown 11.00 100.00
Free packing. Phone MOhawk 4-3923.
HANSEN BROS. NURSERIES, INC.
1268 Montgomery Ave. Narberth, Pa.
Pachysandra, strong plants, grown in soil
frames with light shade. First-class stock.
\$5.00 per 100, \$50.00 per 1000; \$47.50 per
1000 for 5000 or more, including good pack-
ing. Peekskill Nursery, Shrub Oak, N. Y.

PACHYSANDRA
Strong rooted cuttings, \$4.25 per 100, \$40.00
per 1000.
DUNWOODIE NURSERIES
6 Smart Ave. Yonkers, N. Y.
PACHYSANDRA TERMINALIS
1-yr., field-grown, \$65.00 per 1000.
HILLCREST GREENHOUSES
Miller Park Franklin, Pa.

PEONIES

PEONIES
Healthy 3 to 5-eye divisions,
\$3.50 per 10, \$30.00 per 100.
AURORA, white
DAUBENTON, light pink
DUKE OF CLARENCE, rose
GRANDIFLORA NIVEA PLENA, white
AUGUSTE LEMONIER, bright red
E'TTA, pink
MME DE VERNEVILLE, white
FELIX CROUSE, red
VENUS, shell-pink
FESTIVA MAXIMA, white
EDULIS SUPERBA, pink
GENERAL BERTRAND, pink
COURONNE d'OR, white
QUEEN VICTORIA, white
THE MOOR, purple
CLARA BARTON, white
PINK PEONIES, not named, 25c each
WHITE PEONIES, not named, 30c each
RED PEONIES, not named, 20c each
PARKER'S PEONY FARM & NURSERY
Fayetteville, N. Y.

PEONIES

Adolph Rousseau, Baroness Schroeder,
Duchesse de Nemours, Festiva Maxima, Sar-
ah Bernhardt, Lady Alex. Duff, Marie Lo-
moine, Mona, Jules Elie, Reine Hortense.
3-yr.-old whole clumps, not divided, 6
eyes and up, \$75.00 per 100, \$700.00 per 1000;
divisions, 3 to 5 eyes, \$40.00 per 100, \$350.00
per 1000.
VERKADE'S NURSERIES WAYNE, N. J.

GRAFTED TREE PEONIES

Red, white, pink, purple. 1-yr., \$10.00 per
10; 2-yr., \$15.00 per 10. A yellow Tree Peony
for \$1.50 with every 10 others. Discount of
15 per cent on 50 or more. Early double
red, Fern-leaved Peonies, \$22.50 per 10.
ATHA GARDENS, WEST LIBERTY 6, O.

PHLOX

PHLOX SUBULATA

(Creeping Phlox, also called Mountain
Pinks or Thrift.)
Vigorous field-grown clumps, 5 to 8-in.
spread. Available after March 15. Not to be
confused with dried out plants shipped from
cold storage, but to the contrary, in most
instances plants lifted from our fields on a
Monday will be on their way to destination
on Tuesday.

Per 10 Per 100
Atropurpurea, rich wine-red...\$1.75 \$14.00
Blue Emerald, a blue sport of
Emerald Pink 1.75 14.00
Blue Hills, showy sky-blue 1.75 14.00
Crimson Beauty, large flowers of
brilliant red 1.75 14.00
Emerald Pink, a pure unbleached
pink 1.75 14.00
Phlox Elaine, deep rose-pink... 1.75 14.00
Pink Perfection, medium pink
with deeper red eye 1.75 14.00
Vivid, bright vivid pink with a
dark pink eye 1.75 14.00
White Delight, large pure white. 1.75 14.00
Quantities of 250 or more of 1 color, 12c
per plant. Rooted divisions for lining out are
also available, at \$4.00 per 100. On account
of the exceptionally low price on these divi-
sions, we cannot accept orders for less than
50 divisions of one variety. For your con-
venience, orders will be booked until March
10 without deposit. After that date our regu-
lar policy of CASH WITH ORDER, or 25
per cent deposit and balance C.O.D. will pre-
vail. Payment in full before shipment is re-
quired from customers lacking satisfactory
credit rating.

WALTERS GARDENS

R. R. 2 Zeeland, Mich.
PHLOX SUBULATA (CREEPING PHLOX)
Exceptional crop, large clumps.

Per 100
Alexander Pink, finest of pinks\$12.00
Rosa, rose-pink, good grower 12.00
Emerald Pink, shrub-like foliage 12.00
Amoena, tall variety of pink 12.00
May Snow, new fine white 12.00
White Delight, finest of whites 12.00
Blue Hills, light blue 12.00
Emerald Blue, shrub-like foliage in
blue 12.00
Bridesmaid, lavender; very good
grower 12.00
Atropurpurea, bright red; best seller 12.00
Crimson Beauty, bright red 12.00
Rooted cuttings of above for potting or
for lining out, \$4.00 per 100.
Write for price list and prices on delivered
truckloads of Phloxes, Fancies and peren-
nials.

KALAMAZOO PANTRY GARDENS
405 Evelyn St. Kalamazoo, Mich.
Phone FI 4-3289.

PHLOX SUBULATA

(Creeping Phlox)
An excellent choice of varieties.
Transportation charges prepaid by us.

Alba, pure white
Astro, deep orchid-rose
Atropurpurea, wine-red
Butterfly, lilac-bush, showy purple eye
Crimson Beauty, brilliant cyclamen-red
Red Wing, large glowing red flowers
Sensation, pretty bright pink with red eye
Transplants, \$9.50 per 100, \$90.00 per 1000.
Liners, \$5.00 per 100, \$45.00 per 1000.
250 or more of one variety at 1000 rate.
Delivered prices; we pay transportation.
Careful packing and each variety labeled.
Terms: Cash with order.
TANGLEWOOD FARM
P.O. Box 336-N Phone 1060 Clinton, S. C.

More customers for you!
Over 9,500 subscribers, all active buyers.
see your ad in the American Nurseryman.

PIERIS

PIERIS JAPONICA

Grown in open field rows.
Spring 1959 Each 1000
1-yr., 4 to 6 ins.\$0.15
2-yr., 6 to 8 ins.30
3-yr., 8 to 12 ins.45

ECKHART NURSERIES

Species, varieties, hybrids
16 Toppa Blvd. Newport, R. I.

ANDROMEDA

(PIERIS JAPONICA)
One of the most beautiful broad-leaved
Evergreens. Per 100 Per 1000
2 to 3-in., 1-yr., T.\$ 8.00 \$ 75.00
3 to 5-in., 1-yr., T. 14.00 120.00
6 to 8-in., 2-yr., TT. 20.00 190.00
PLANE VIEW NURSERY
1355 W. Main Rd. Newport, R. I.

PIERIS JAPONICA (ANDROMEDA)
Per 100 Per 1000
4-yr. TT. 8 to 12 ins.\$40.00 \$350.00
4-yr. TT. 6 to 8 ins. 30.00 250.00
PETER BROUWER'S NURSERIES
54 Lester St. New London, Conn.

PRIVET

Thousands of Amur River North Privet
Per 100 Per 1000
18 to 24 ins.\$3.00 \$25.00
2 to 4 ft. 4.00 30.00
5 to 12 ft. 5.00 40.00
Immediate shipment. Satisfaction guaranteed.
Robinson Nursery Co., Greenville, Ga.
True Amur River Privet, any size up to
4 ft. \$20.00 per 1000.
Mountville Nurseries, Mountville, Ga.

PYRACANTHAS

PYRACANTHAS
2-yr. plants from cuttings, twice transplanted.
Each
bare-root B&B
500 Kasan, 9 to 12 ins.\$0.65 \$1.00
500 Kasan, 12 to 15 ins.65 1.10
550 Islandi, 9 to 12 ins.60 .90
500 Islandi, 12 to 15 ins.60 1.00
Packing at cost.
THE CAPE COD NURSERIES
H. V. LAWRENCE, INC.
Falmouth, Mass.

PYRACANTHA COCCINEA LALANDI
These fine liners are just right for cans or the field!
Per 100
6 to 8 ins., potted\$15.00
8 to 12 ins., potted 12.50
12 to 18 ins., bare-root 15.00
These are all nice plants. Send us your trial order. **GUARANTEED SATISFACTION!**
COTTAGE HILL NURSERY
6900 Japonica Lane Mobile, Ala.

RHODODENDRONS

RHODODENDRONS
Superior quality. B&B Rhododendron
clumps, collected from the cool slopes of
the Carolina mountains. Nice root systems.
Shipped F.O.B. from near Asheville, N. C.,
up to May 1. Order now and see this beauty
yourself.
Each, 10 Each, 100
R. maximum, 12 to 18-in. specimens\$1.50 \$1.25
R. maximum, 2 to 3 ft. 2.00 1.75
(6 to 12 shoots) 3.00 2.75
R. maximum, 3 to 4 ft. 3.50 3.00
E. carolinianum, 1 to 2 ft. 3.50 3.00
R. catawbiense, add 30c each to above
prices. No 3 to 4-ft. sizes.
Prices subject to change without notice.
Minimum order of \$15.00.
Cash or check with order, please.
Julian B. Culvern
MORRISTOWN SCENIC NURSERY
Morristown, Tenn.

OWN-ROOT HYBRID RHODODENDRONS
America, Dr. Dresselhuys, catawb. grand.
9 to 12 ins. 12 to 15 ins.
\$1.25 \$1.75 \$2.25
Priced each. Minimum order 10 plants.
Shipped express collect.
Grafted hybrids, all sizes, budded. Best
nursery inspection. Pickup only.
WINDY HILL NURSERIES
Wood St. Mercury 5-2744 Salisbury, Pa.

FIFTY THOUSAND OWN-ROOT RHODODENDRONS
A wide range of hardy varieties in 1, 2
and 3-yr. plants. Come and see for yourself
to compare quality and prices, or just come
and talk Rhododendrons, if you prefer.
WELLS NURSERY
P. O. Box 141 Red Bank, N. J.
Phone SHadyside 1-0180

RHODODENDRONS, ROOTED CUTTINGS
Nurserymen's list of hardy hybrids.
Exotic semi-hardy list for fanciers.
Rare Asiatic species seedlings.
Free lists available now.
TUMBLE BROOK RHODODENDRON NURSERY
17 Simsbury Rd. West Hartford, Conn.

RHODODENDRONS
HYBRID RHODODENDRONS
Landscape sizes.
Different colors.
PARMENTIER'S ROSES
Grady St. Bayport, L. I., N. Y.
Phone Bayport 5-0811

RHODODENDRON MAXIMUM
Nursery-grown and collected. 2 to 7 ft.
high. Well-shaped and symmetrical plants.
CURTIS NURSERIES, INC.
Callicoon, N. Y.

100,000 hybrid Rhododendrons, landscape
and liners. Also Evergreens and shrubs.
Kordus Nursery, Deer Park Ave., R. D. 4,
Huntington, N. Y.

ROSEBUSHES

MINIATURE ROSES
Abundant, continuous flowering, cute little
10-in. bushes, are winter hardy like hybrid
Teas which they resemble. Starred (*) vari-
eties best for forcing. Immediate or later
delivery of 2 1/2-in. own-root pot plants. Write
for FREE nursery stock wholesale price list.

Per 10 Per 100
Red (Spring Hill's choice) ...\$ 4.00 \$35.00
Juliette, large crimson 4.50 40.00
*Little Buckaroo (pat. 1726), red 5.50 50.00
*Oakington Ruby, red 4.50 40.00
*Perla de Alcanada, red 4.50 40.00
*Pink Charming, red 6.00 55.00
*Tom Thumb, red 5.00 45.00
*Pink (Spring Hill's choice) ... 4.00 35.00
*Dian, new deep rose 6.00 55.00
*Patty Lou (patent 1135), pink 5.00 45.00
*Pompon de Paris, pink 4.50 40.00
*Yellow (Spring Hill's choice) ... 4.00 35.00
*Blit of Sunshine, bright yellow. 10.00 90.00
*Jackie, cream and gold 4.50 40.00
*Presumida, orange, gold and 4.50 40.00
*salmon 4.50 40.00
*White (Spring Hill's choice) ... 4.00 35.00
*Cinderella (pat. 1051), white. 5.50 50.00
*Polka Dot, new, white 6.00 55.00
*White Fairy, superb 5.00 45.00
*Climbing Pink Cameo, pink 5.50 50.00
SPRING HILL NURSERIES CO.
Dept. AN-59 Tipp City, O.

ROSEBUSHES
Big, thrifty plants, guaranteed to please
your most critical customers.
Priced to meet competition.
Shipped when you need them.
Standard and patent.
Bare-root and prepackaged.
A wide assortment to choose from.
Write, phone or wire for price list,
or better still, come see for yourself.
MARTIN'S ROSE NURSERY
P. O. Box 155 Arp, Tex.
Phone UL 9-2191

ROSES ROSES ROSES
Disappointed with your Rose source?
Losing customers?
Ready to throw in the towel?
Cheer up and smile.
It'll be worth your while
to write for our list today.
No order too large or too small.
We personally take care of them all.
NEW LONDON ROSES
"The Rose Nursery"
P. O. Box 876 Overton, Tex.

ROSES
The BEST of the old,
the NEWEST of the new.
A. A. R. 3. WINNERS! STARFIRE and
IVORY FASHION. Naturally matured, care-
fully harvested and generously graded. Cata-
logs now available. Buy the best. "BUY
KLYN'S."
GERARD K. KLYN, INC., MENTOR, O.
Wholesale Rose Growers and Nurserymen
IN THE HEART OF FAMOUS LAKE CO.

ROSES
CUSTOM PACKAGED OR BARE-ROOT
Good selection of patented and nonpatented
varieties to suit your smallest or largest
needs. A dependable source for quality
stock since 1923. We invite your inquiries.
Phone LY 4-4432.
VERMAY NURSERY CO.
Dallas Highway Dept. A Tyler, Tex.

BUSH ROSES
Packaged for store and garden mart trade,
also in bulk. Choice patented and non-pat-
ented varieties. Also packaged shrubs, fruit
trees, flowering trees and shade trees.
Ask for complete list.
WAYNESBORO NURSERIES
Waynesboro, Va.

ROSEBUSHES
See our ad in February 15 issue
for prices and varieties.
LINDALE NURSERY
Box 141 Phone 18F2W Lindale, Tex.

POTTED ROSES
See our ad on page 56.
DANEGGER'S HI-WAY NURSERY, INC.
P. O. Box 336 Milford, Del.
Roses, finest quality plants, reasonable.
112 varieties, standard and patented. Write.
Tate Nursery, R. 3, Tyler, Tex.

Surplus Stock
can be easily and quickly turned into
Cash
by listing it in the
American Nurseryman Classified Ads

ROSE STOCK

MULTIFLORA ROSE
Special, selected thorny multiflora for
budding. Tops are cut back to approximately
14 ins.
Caliper Per 1000
6 to 8 mm.\$35.00
4 to 6 mm. 27.50
2 to 3 mm. 12.50
DANEGGER'S HI-WAY NURSERY, INC.
Box 336 Milford, Del.

MULTIFLORA ROSE
Top quality plants for living fences and
conservation plantings.
Root-crown height Per 1000
caliper
2 to 3 mm. 8 to 15 ins. \$12.50
3 to 5 mm. 12 to 18 ins. 17.50
3 to 8 mm. 12 to 24 ins. 22.50
5 to 12 mm. 18 to 36 ins. 38.50

UNDERSTOCK. Straight shanked seed-
lings grown especially for understock. Nema-
tode free. Expertly graded to suit the most
particular.
4 to 6 mm.\$27.50 per 1000
2 to 4 mm. 17.50 per 1000
The above prices are F.O.B. Griggsville,
Ill. nursery. All tops cut back to 10 ins. at
shipping unless otherwise requested. Our
storage facilities are the best. ORDER NOW
for delivery this winter or spring. 10 per
cent discount in lots of 10,000 or over; special
quotations on larger quantities. For less
than 1000 add 30 per cent. Packing at cost.
FARM LANDSCAPE CO.
Route 3 Urbana, Ill.

SEEDS

GINKGO BILOBA
Cleaned seed, \$1.00 per lb.
JORDAN NURSERIES
P. O. Box 269 Warner Robins, Ga.
NANDINA SEED
\$1.00 per lb. Add 25c for postage.
PINKSTON'S NURSERIES
Parrott, Ga.

SHRUBS AND TREES

EVERGREENS, WHOLESALE
A wide selection of Evergreen seedlings
and transplants, also hardwoods, shade trees,
ornamentals, shrubs and flowering trees.
Our selected seed with good heredity and
scientific culture assures healthy trees with
heavy roots for rapid growth.
Musser offers quality trees at a price made
possible through large quantity production.
Our cold storage permits late shipments.
No charge for packing and boxing. Ask for
catalog and wholesale planting lists.
Our ad, which appears on page 24 of this
issue, shows a partial list of seedlings and
transplants.

MUSSER FORESTS
Box 16-DC Indiana, Pa.
ROOTED CUTTINGS, OPEN FRAME
Each, 100
Blue Arctic Willow\$0.06
Chinese Privet (hardy)04
Regel Privet (true)05
River North Privet05
Euonymus Purescent05
Euonymus, paten and erectus05
Euonymus Sarcocoe07
Euonymus carrieri05
Euonymus vegetus06
Euonymus alatus compactus06
Forsythia Lynwood Gold06
Euonymus Sarcocoe, in Arco-Pots17
Mahonia aquif. 1-yr. trans. seedlings... .15
WHITEMAN'S GARDENS
R. R. 1 Plymouth, Ind.

ORNAMENTAL TREES
Crab Apples, 40 varieties; 1-yr. trees and
limited number 3-yr. transplants. Descrip-
tive booklet available.
Thunder Cloud purple-leaved Plum, 1-yr.
and 3-yr., 6 to 8 ft.
Winter King Hawthorn, fruits ornamental
all winter, 1-yr. whips.
American Holly, hardy named varieties,
in sizes to 6 ft.
Taxus, Ilex rotundifolia, Ilex verticillata,
large plants of Magnolia soulangiana and
Cornus kousa chinensis seedlings.
SIMPSON ORCHARD CO., INC.
1504 Wheatland Rd. Vincennes, Ind.
Phone 489-3

SURPLUS STOCK 100
2000 Taxus, 2 1/2-in.\$15.00
3000 Juniperus hetzi 15.00
3000 Pfitzer Juniper 15.00
1000 Andorra Juniper 15.00
2-yr. Azalea mollis 12.00
CHARLES J. SANDERS
Monongahela-Bentleyville Rd.
Monongahela, Pa.

HONEY LOCUST, THORNLESS
10 to 50 50 and up
Each Each
8 to 10 ft.\$3.25 \$3.00
10 to 12 ft. 4.50 4.00
2 to 2 1/2-in. cal. 5.50 5.00
2 1/2 to 3-in. cal. 6.75
WAYNESBORO NURSERIES
Waynesboro, Va.

SHRUBS AND TREES
Lining-out stock, container stock, field-
grown stock, in wide varieties and large
assortments.
Write for descriptive list.
OVERLOOK NURSERIES, INC.
4125 Overlook Road Mobile, Ala.
Quercus rubra (Red Oak), root-pruned,
field specimens, 2 to 8-in. caliper.
H. H. Rogers Nursery, Cooperstown, N. Y.

SHRUBS AND TREES—Continued

POT-GROWN GRAFTS		Per 100
<i>Acer palmatum atropurpureum</i>	.....	\$65.00
<i>Cornus florida rubra</i>	.....	50.00
<i>Fagus sylvatica asplenifolia</i>	.....	55.00
<i>Fagus sylvatica riversi</i>	.....	55.00
<i>Pinus cembra</i>	.....	55.00
<i>Tsuga cerni</i>	.....	55.00
ROOTED CUTTINGS, 1-YR. BEDDED		100 1000
<i>Buxus sempervirens</i> , 4 to 6 ins.	.....	\$10.00 \$ 90.00
<i>Chamaecyparis pisifera aurea</i> , 4 to 6 ins.	.....	12.00
<i>Chamaecyparis cyano viridis</i> , 4 to 6 ins.	.....	15.00
<i>Chamaecyparis lutescens</i> , 4 to 6 ins.	.....	10.00
<i>Illex bullata</i> , 4 to 6 ins.	.....	10.00 90.00
<i>Illex crenata</i> , 5 to 8 ins.	.....	10.00 90.00
<i>Juniper</i> , Andorra, 4 to 8 ins.	.....	12.00 100.00
<i>Juniperus hietzi</i> , 4 to 8 ins.	.....	12.00 100.00
<i>Juniperus pfitzeriana</i> , 4 to 6 ins.	.....	12.00 100.00
<i>Juniperus stricta</i> , 4 to 6 ins.	.....	12.00 100.00
<i>Pachysandra</i>	.....	4.00 35.00
<i>Pyracantha lalandi</i>	.....	10.00
<i>Pyracantha lalandi</i> , potted	.....	15.00
<i>Retinospora plumosa aurea</i> , 4 to 8 ins.	.....	10.00 90.00
<i>Retinospora plumosa</i> , 5 to 8 ins.	.....	10.00 100.00
<i>Taxus brevifolia</i> , 4 to 6 ins.	.....	12.00 100.00
<i>Taxus brevifolia</i> , 4 to 6 ins.	.....	12.00 100.00
<i>Taxus capitata</i> , tips, 6 to 8 ins.	.....	15.00 125.00
<i>Taxus cuspidata</i> , 4 to 6 ins.	.....	12.00 100.00
<i>Taxus hatfieldi</i> , 4 to 6 ins.	.....	12.00 100.00
<i>Taxus hicksii</i> , 4 to 6 ins.	.....	12.00 100.00
<i>Taxus intermedia</i> , 4 to 6 ins.	.....	12.00 100.00
<i>Taxus Moon's columnaris</i> , 4 to 6 ins.	.....	12.00 100.00
<i>Thuja globosa</i> , 5 to 8 ins.	.....	12.00 100.00
<i>Thuja pyramidalis</i> , 4 to 6 ins.	.....	12.00 100.00
<i>Thuja Geo. Peabody</i> , 4 to 6 ins.	.....	12.00 100.00
<i>Thuja nigra</i> , 4 to 6 ins.	.....	12.00 100.00
1-YR. TRANSPLANTED IN FLATS		
<i>Azalea Hino-Crimson</i>	.....	\$12.00 \$100.00
<i>Azalea hinodogiri</i>	.....	12.00 100.00
<i>Pieris japonica</i>	.....	12.00 100.00
ROOTED CUTTINGS, 2-YR. BEDDED		
<i>Taxus cuspidata</i>	.....	\$25.00 \$200.00
<i>Taxus hicksii</i>	.....	25.00 200.00
<i>Illex crenata</i>	.....	20.00 150.00
<i>Illex bullata</i>	.....	20.00 150.00
1-YR. SEEDLINGS		
<i>Cornus florida</i> , 8 to 12 ins.	.....	\$ 5.00 \$40.00
<i>Chinese Chestnut</i> , 12 to 24 ins.	.....	10.00 75.00
<i>Taxus capitata</i>	.....	5.00 40.00
2-YR. SEEDLINGS		
<i>Balsam Fir</i> , 4 to 8 ins.	.....	\$ 4.00 \$35.00
<i>Chinese Chestnut</i> , 12 to 30 ins.	.....	15.00
<i>Colorado Pinyon Pine (glauca)</i>	.....	8.00 70.00
<i>Concolor Fir</i> , 4 to 6 ins.	.....	8.00 60.00
<i>Douglas Fir</i> , 4 to 8 ins.	.....	6.00 50.00
<i>Illex crenata</i> , 3 to 6 ins.	.....	6.00 40.00
<i>Picea excelsa</i> , 3 to 5 ins.	.....	3.50 25.00
<i>Picea engelmannii</i> , 3 to 4 ins.	.....	6.00 50.00
<i>Picea (Black Hills Spruce)</i> , 3 to 4 ins.	.....	5.00 40.00
<i>Picea pungens glauca</i> , 3 to 5 ins.	.....	4.00 35.00
<i>Picea (White Spruce)</i> , 3 to 5 ins.	.....	3.50 25.00
<i>Pinus strobus</i> , 4 to 6 ins.	.....	3.50 25.00
<i>Pinus sylvestris</i> , 4 to 5 ins.	.....	3.50 25.00
<i>Taxus capitata</i> , 4 to 6 ins.	.....	7.00 60.00
<i>Thuja occidentalis</i> , 4 to 6 ins.	.....	5.00 40.00
<i>Thuja orientalis</i> , 4 to 6 ins.	.....	5.00 40.00
<i>Tsuga diversifolia</i> , 3 to 4 ins.	.....	6.00 50.00
<i>Tsuga canadensis</i> , 3 to 5 ins.	.....	6.00 50.00
2-YR. TRANSPLANTS		
<i>Azalea mucronulatum</i>	.....	\$15.00
<i>Azalea schlippenbachii</i>	.....	15.00
<i>Azalea mollis</i>	.....	15.00
<i>Pieris japonica</i>	.....	20.00 \$150.00
3-YR. SEEDLINGS		
<i>Balsam Fir</i> , 4 to 6 ins.	.....	\$5.00 \$40.00
<i>Concolor Fir</i> , 4 to 6 ins.	.....	8.00 70.00
<i>Picea (White Spruce)</i> , 4 to 8 ins.	.....	5.00 40.00
<i>Pinus mugheus (Tyrolean)</i> , 3 to 5 ins.	.....	6.00 50.00
<i>Pinus strobus</i> , 5 to 10 ins.	.....	6.00 50.00
<i>Pinus sylvestris</i> , 5 to 8 ins.	.....	5.00 40.00
<i>Thuja occidentalis</i> , 4 to 8 ins.	.....	5.00 40.00
<i>Thuja orientalis</i> , 5 to 8 ins.	.....	5.00 40.00
<i>Tsuga canadensis</i> , 4 to 8 ins.	.....	7.00 60.00
3-YR. SEEDLINGS, TRANSPLANTS		
<i>Taxus capitata</i> , 5 to 8 ins.	.....	\$12.00 \$100.00
<i>Picea engelmannii</i> , 4 to 6 ins.	.....	7.00 60.00
<i>Picea excelsa</i> , 4 to 6 ins.	.....	6.00 50.00
<i>Picea rubens</i> , 4 to 6 ins.	.....	6.00 50.00
<i>Pinus sylvestris</i> , 5 to 8 ins.	.....	6.00 50.00
<i>Picea pungens glauca</i> , 4 to 6 ins.	.....	8.00 70.00
4-YR. TRANSPLANTS		
<i>Azalea hinodogiri (branched)</i>	.....	\$50.00
<i>Azalea poukhanensis (branched)</i>	.....	50.00
<i>Leucothoe catesbaei</i> , 8 to 12 ins.	.....	35.00
<i>Picea pungens glauca</i> , 6 to 10 ins.	.....	12.00 \$100.00
<i>Taxus capitata</i> , 6 to 10 ins.	.....	15.00 125.00
<i>Thuja occidentalis</i> , 8 to 12 ins.	.....	12.00
<i>Tsuga canadensis</i> , 8 to 12 ins.	.....	10.00 95.00
<i>Tsuga canadensis</i> , 8 to 10 ins.	.....	15.00 140.00
<i>Tsuga canadensis</i> , 10 to 12 ins.	.....	20.00 190.00
VAN DINE NURSERY		
237 Berdan Ave.	.....	Freekness, N. J.
DWARF NINEBARK		
<i>Physocarpus opulifolius nana</i>	.....	Each, 100 1000
13 to 24 ins., heavily branched	.....	\$0.35 \$0.30
SCHUTT NURSERIES		
R. D. 5	.....	Bloomsburg, Pa.
Phone 5Tering 4-6988	.....

SHADE TREES

<i>Alder</i> , European, 1 1/2 to 2 ins.	.....	\$ 6.00
<i>Birch</i> , Cutleaf, B&B; 2 ins.	.....	15.00
<i>Birch</i> , European, 2 ins.	.....	10.00
<i>Butternut</i> , B&B; 1 1/2 to 2 ins.	.....	10.00
<i>Redbud</i> , 3 to 4 ft.	.....	.65
<i>Chestnut</i> , Chinese, 6 to 8 ft.	.....	3.00
<i>Elm</i> , American, 2 to 2 1/2 ins.	.....	5.00
<i>Linden</i> , American, 6 to 8 ft.	.....	2.50
<i>Maple</i> , Amur, B&B; 5 to 6 ft.	.....	3.75
<i>Maple</i> , Crimson King, 1 to 1 1/2 ins.	.....	6.50
<i>Maple</i> , Norway (crooked), 6 to 8 ft.	.....	1.75
<i>Maple</i> , Red, B&B; 2 ins.	.....	14.50
<i>Maple</i> , Silver, 8 to 18 ft.	.....	1.50
<i>Maple</i> , Silver, 1 1/2 to 2 ins.	.....	3.00
<i>Mountain Ash</i> , 8 to 9 ft.	.....	2.00
<i>Oak</i> , Pin, B&B; 5 to 6 ft.	.....	4.00
<i>Oxydendrum</i> (Sourwood), B&B; 2 to 3 ft.	.....	2.50
<i>Persimmon</i> , 6 to 8 ft.	.....	3.50
<i>Plane Tree</i> , London, 1 1/2 to 2 ins.	.....	5.25
<i>Sycamores</i> , 6 to 8 ft.	.....	1.50
<i>Tulip Tree</i> , B&B; 5 to 6 ft.	.....	4.00
<i>Walnut</i> , Black, 6 to 8 ft.	.....	3.00

SHRUBS

<i>Barberry</i> , Japanese, 18 to 24 ins.	.....	\$0.35
24 to 30 ins.	.....	.45
<i>Barberry</i> , Japanese Red, 15 to 18 ins.	.....	.45
18 to 24 ins.	.....	.65
24 to 30 ins.	.....	.65
<i>Cephalanthus</i> (Buttonbush), 3 to 4 ft.	.....	.60
<i>Chionanthus virginicus</i> , 18 to 24 ins.	.....	.75
<i>Cotoneaster divaricata</i> , 15 to 18 ins.	.....	2.00
3 to 4 ft. B&B	.....	.50
<i>Dogwood</i> , Redtwig, 3 to 4 ft.	.....	.50
<i>Elder</i> , Golden, 2 to 3 ft.	.....	.25
<i>Forsythia Arnold's Dwarf</i> , 12 to 16 ins.	.....	.30
15 to 18 ins.	.....	.40
<i>Foraythia Spring Glory</i> , 3 to 4 ft.	.....	.60
<i>Gooseberry</i> Pixie, 18 to 24 ins.	.....	.18
<i>Hazelnut</i> , 3 to 4 ft.	.....	.55
4 to 5 ft.	.....	.65
<i>Honeyuckle</i> , Clavey's, 15 to 18 ins.	.....	.35
2 to 2 1/2 ft.	.....	.65
<i>Hydrangea P.G.</i> , 18 to 24 ins.	.....	.40
2 to 3 ft.	.....	.60
3 to 4 ft.	.....	.65
<i>Hypericum aureum</i> , 15 to 18 ins.	.....	.30
<i>Lilac</i> , hybrid, 2 to 3 ft.	.....	.80
3 to 4 ft.	.....	.90
<i>Lilac</i> , Japanese Tree, 4 to 5 ft.	.....	2.00
<i>Mock Orange</i> , virginiana, 2 to 3 ft.	.....	.45
4 to 5 ft.	.....	.55
<i>Photinia</i> , Oriental, 3 to 4 ft.	.....	1.00
<i>Privet</i> , A. R. (extra hvy.), 18 to 24 ins.	.....	.15
<i>Privet</i> , Border, 3 to 4 ft.	.....	.40
<i>Privet</i> , Ibolium, 5 to 6 ft.	.....	.40
<i>Prunus besseyi</i> , 3 to 4 ft.	.....	.55
<i>Spiraea</i> , A. Waver, 18 to 24 ins.	.....	.50
24 to 30 ins.	.....	.60
<i>Spiraea foerbeli</i> , 2 to 2 1/2 ft.	.....	.50
<i>Spiraea prunifolia</i> , 2 to 3 ft.	.....	.50
4 to 5 ft.	.....	.75
<i>Spiraea thunbergii</i> , 4 to 5 ft.	.....	.60
<i>Spiraea vanhouttei</i> , 3 to 4 ft.	.....	.40
4 to 5 ft.	.....	.45
<i>Viburnum dentatum</i> , 3 to 4 ft.	.....	.45
4 to 5 ft.	.....	.55
<i>Viburnum molle</i> , 3 to 4 ft.	.....	.55
<i>Viburnum opulus nanum</i> , 15 to 18 ins.	.....	.85
<i>Viburnum opulus sterile</i> , 4 to 5 ft.	.....	.70
<i>Viburnum tomentosum</i> , 2 to 3 ft.	.....	.50
3 to 4 ft.	.....	.60
<i>Viburnum wrightii</i> , 3 to 4 ft.	.....	1.50

THE HOME NURSERY

Since 1887
Corliss Ingels LaFayette, Ill.
On Route 17. In Stark county.

HEATHER AND BROOM

<i>Calluna vulgaris alba erecta</i> , 4 to 6 ins.	.....	\$0.45
<i>Calluna vulgaris alba pilosa</i> , 4 to 6 ins.	.....	.45
<i>Calluna vulgaris alba pilosa</i> , 6 to 8 ins.	.....	.55
<i>Calluna vulgaris alportii</i> , 4 to 6 ins.	.....	.45
<i>Calluna vulgaris rubra</i> , 8 to 10 ins.	.....	.65
Add 35c to price of above if plants are to be burlapped.		
<i>150 Cytisus praecox</i> , 9 to 12 ins. B&B	.....	\$1.25
<i>500 Cytisus praecox</i> , 18 to 24 ins. B&B	.....	1.75
<i>100 Cytisus purgans</i> , 6 to 9 ins. B&B	.....	1.00
<i>200 Cytisus scoparius</i> , 18 to 24 ins. B&B	.....	1.75
<i>100 Cytisus scoparius andreaus</i> , 18 to 24 ins. B&B	.....	1.75

THE CAPE COD NURSERIES

H. V. LAWRENCE, INC.
Falmouth, Mass.

SPECIMEN RHODODENDRONS

1, 6 to 8 ft.	.....	\$ 20.00 each
5, 9 to 10 ft.	.....	50.00 each
6, 5 to 6 ft.	.....	25.00 each
2, 5 ft.	.....	30.00 each
1, 4 ft.	.....	20.00 each
1, 9 ft.	.....	50.00 each
30, 3 to 4 ft.	.....	10.00 each
5, 4 ft.	.....	30.00 each
3, 12 ft.	.....	60.00 each
2 species about 10 ft.	.....	100.00 each
5, 10 ft.	.....	60.00 each
1, 12 ft.	.....	100.00 each
68, 6 ft.	.....	30.00 each
300 <i>Azalea mollis</i> , 2 1/2 to 3 ft.	.....	2.50 each
100 <i>Azalea kumata</i> , 2 1/2 to 3 ft.	.....	30.00 each
15 <i>Pink Dogwood</i> , 15 to 15 ft.	.....	50.00 each
12 <i>Cornus kousa</i> , 12 to 15 ft.	.....	75.00 each
WE WILL NOT DIG. CASH AND CARRY.		
HICKORY HILL NURSERY		
R. F. D. 3	.....	Northport, L. I., N. Y.

SEEDLINGS

<i>Berberis thunbergii atropurpurea</i> , 1-yr. seedlings, 4 to 8 ins. (special permit)	.....	\$ 4.50 \$ 40.00
<i>Crataegus (cordata) phaeonophyrum</i> , 1-yr. seedlings, 8 to 12 ins. and up	.....	7.50 60.00
<i>Helleborus niger</i> , 3-yr. transplants	.....	45.00
<i>Liquidambar styraciflua</i> , 1-yr. seedlings, 4 to 8 ins.	.....	9.00 75.00
<i>Picea pungens glauca</i> , 2-yr. seedlings, 3 to 6 ins.	.....	5.00 40.00
<i>Picea pungens glauca</i> , 3-yr. transplants	.....	17.50 150.00
<i>Pinus flexilis</i> , 2-yr. seedlings, 2 to 4 ins.	.....	5.00 40.00
<i>Pinus nigra</i> , 2-yr. seedlings, 4 to 8 ins.	.....	4.50 40.00
<i>Pinus sylvestris</i> , 2-yr. seedlings, 6 to 10 ins.	.....	4.50 40.00
<i>Pinus thunbergii</i> , 2-yr. seedlings, 4 to 8 ins.	.....	6.00 50.00
<i>Quercus borealis</i> , 1-yr. seedlings, 6 to 8 ins.	.....	6.00 50.00
<i>Quercus borealis</i> , 1-yr. seedlings, 8 to 12 ins.	.....	7.50 60.00
<i>Quercus palustris</i> , 1-yr. seedlings, 6 to 8 ins.	.....	6.00 50.00
<i>Quercus palustris</i> , 1-yr. seedlings, 8 to 12 ins.	.....	7.50 60.00
<i>Sorbus aucuparia</i> , 2-yr. transplants, 18 to 24 ins. and up	.....	25.00 200.00
<i>Tsuga canadensis</i> , transplants, 4 to 8 ins.	.....	15.00 125.00
<i>Tsuga canadensis</i> , transplants, 6 to 10 ins.	.....	20.00 175.00
<i>Tsuga caroliniana</i> , 2-yr. seedlings, 3 to 6 ins.	.....	10.00 75.00
<i>Tsuga diversifolia</i> , 2-yr. seedlings, 4 to 6 ins.	.....	15.00 125.00
<i>Viburnum dentatum</i> , 1-yr. seedlings, 6 to 8 ins.	.....	10.00 70.00
<i>Viburnum wrightii</i> , 1-yr. seedlings, 6 to 8 ins.	.....	10.00 70.00

HESSE NURSERIES

P. O. Box 125 Wayne, N. J.

HARDY NORTHERN INDIANA GROWN

<i>Cornus florida</i> , white, 3 to 4 ft.	.....	\$2.00
4 to 5 ft.	.....	\$2.25
5 to 6 ft.	.....	2.50
<i>Cornus florida rubra</i> , 18 to 24 ins.	.....	2.00
2 to 3 ft.	.....	2.35
<i>Norway Maple (Acer)</i> , 1 1/2 to 1 1/2 in. cal.	.....	4.00 6.50
<i>Sugar Maple (Acer)</i> , 1 1/2 to 1 1/2 in. cal.	.....	4.00 6.50
1 1/2 to 2 in. cal.	.....	8.00 12.50
2 to 2 1/2 in. cal.	.....	12.00 17.50
<i>Chinese Elm</i> , 5 to 6 ft.	.....	.85
<i>Straight</i> , 6 to 8 ft.	.....	1.25
8 to 10 ft.	.....	1.75
<i>Sycamores</i> , 5 to 6 ft.	.....	1.25
6 to 7 ft.	.....	1.50
<i>Red Barberry</i> , 3-yr. cut back	.....	Each
8 to 12 ins.	.....	.05.25
<i>Viburnum dentatum</i> , 2-yr. seedlings, 10 to 18 ins.	.....	.035
<i>Norway Spruce</i> , green; 2-yr. seedlings, 6 to 12 ins.	.....	.035
<i>Euonymus erectus</i> , 2-yr. 2 1/2-in. pots, bedded, 8 to 12 ins.	.....	.20
<i>Euonymus minimus</i> , 2-yr., 2 1/2-in. pots, bedded, 8 to 10 ins.	.....	.20
<i>Euonymus minimus</i> , 3-yr., beds, 2 1/2-in. pots, bedded, 10 to 12 ins.	.....	.35
<i>Euonymus minimus</i> , 2-yr., beds, 8 to 10 ins.	.....	.18
<i>Euonymus erectus</i> , 2-yr. beds, 10 to 12 ins.	.....	.18
<i>Euonymus coloratus</i> (nursery row), 1-yr., 10 to 15 ins.	.....	.25

LAUGHAN'S NURSERY & GHSE. CO.

15910 Cleveland Rd., R. 2 Granger, Ind.

Miscellaneous stock for spring shipment.
Acer palmatum atropurpureum, 2-yr. graft.
Cham. plumosa aurea, 2-yr. transplants.
Cornus florida, 2-yr. seedlings, root-pruned, 2 to 3 ft., 3 to 4 ft.
Cornus florida alba plena, 3 to 3 ft., 3 to 4 ft., 4

TAXUS		Each, 100	1000
Capitata, cuspidata, hickel,			
10 to 15 ins., 5-yr., TT	.....	\$0.90	\$0.80
Cuspidata, 4-yr., TT	.....	.75	.65
JUNIPERS			
Pfitzer, 2-yr. be	.....	.30	.25
12 to 15 ins., 4-yr., TT	.....	.75	.65
Hetzl, 12 to 15 ins., TT	.....	.75	.65
Fastigiata, 15 to 18 ins., 4-yr., TT	.....	.75	.65
ARBORVITAE			
Pyramidal, 15 to 18 ins., 4-yr., TT	.....	.75	.65
SCOTCH PINE			
2 to 3 ft., T, bare-root	.....	1.10	1.00
B&B	.....	1.60	1.45
SYCAMORE			
3 to 4 ft., T	.....	.60	...
4 to 5 ft., T	.....	.75	...
5 to 6 ft., T	.....	.90	...
SILVER MAPLE			
6 to 12 ins., s.	.....	\$10.00	per 1000
12 to 24 ins., s.	.....	20.00	per 1000
2 to 3 ft., s.	.....	\$10.00	per 100
3 to 4 ft., s.	.....	15.00	per 100
4 to 5 ft., s.	.....	15.00	per 100
2 per cent discount, cash with order.			
Write for complete price list.			
RICHARDSON NURSERIES, INC.			
53947 Fir Rd., R. 1	Granger, Ind.		

STOCK LIST, READY FOR SPRING

625 Norway Maple, 1 1/2 to 2 1/2-in. cal.	
435 Schwedler Maple, 1 1/2 to 2 1/2-in. cal.	
440 Sugar Maple, 1 to 1 1/2-in. cal.	
3500 Silver Maple, 1 to 2-in. cal.	
730 American Elm, 1 to 2 1/2-in. cal.	
815 Chinese Elm, 1 1/2 to 5-in. cal.	
96 American Birch, 1 1/2 to 2 1/2-in. cal.	
55 American Birch, clumps	
144 European Birch, 1 1/2 to 3 1/2-in. cal.	
Low branched	
410 Honey Locust, 1 to 1 1/2-in. cal.	
1300 American Sycamore, 1 to 2-in. cal.	
109 Tulip Tree, 2 to 3 1/2-in. cal.	
500 Flowering Crab Apple, 3 to 6 ft., 3-yr.	
150 Redbud, bush form, 2 to 5 ft.	
Write for prices. Also flowering shrubs.	
Evergreens, Junipers, in 1 to 6 ft.; Arborvitae, liners to large sizes.	

NAGLE'S NURSERY

84th Ave., R. 2, Box 267 Decatur, Mich.

SORBUS AUCUPARIA		100 rate
26 3 to 4 ft.	.....	\$0.75
260 4 to 5 ft.	.....	1.00
495 5 to 6 ft.	.....	1.25
245 6 to 8 ft.	.....	1.75
78 1 to 1 1/2-in.	.....	2.50
SILVER MAPLE		
66 4 to 5 ft.	.....	.60
100 5 to 6 ft.	.....	.75
299 6 to 8 ft.	.....	1.00
448 8 to 10 in. (1 1/2 to 1 1/2-in.)	.....	1.75
EUONYMUS ALATUS		
730 12 to 15 ins.	.....	.20
840 15 to 18 ins.	.....	.40
555 18 to 24 ins.	.....	.60
EUONYMUS ALATUS COMPACTUS		
365 12 to 15 ins.	.....	.25
790 15 to 18 ins.	.....	.50
PONTIAC NURSERY CO.		
Romeo, Mich.		

SHRUBS

Just a few of the better shrubs included in our latest list are offered below. All have had the benefit of an exceptionally good growing season and are in prime condition for canning or resale.

Cornus elegantissima	.....	Per 100
Daphne cneorum	.....	\$40.00
Forstythia Lynwood Gold, 2-yr.	.....	45.00
Forstythia Beatrix Farrand, 15 to 18 ins.	.....	25.00
Hydrangea Nikko Blue, 2-yr.	.....	45.00
Hydrangea, 3-yr.	.....	65.00
Hypericum Hidcote	.....	22.50
Weigela Java Red	.....	40.00
Vicary Privet, 10 to 12 ins.	.....	25.00

Write for our complete list.

THE JOSEPH F. MARTIN CO., INC.

Box 189 Painesville, O.

Heavy, finished landscape material for the discriminating clients.	
Flowering Crab Apples: Almey and Hops, 1 1/2 to 1 3/4-in. cal., \$4.75; 1 1/2 to 2-in. cal., \$6.00.	
Floribunda, 4 to 5 ft., \$4.00; 5 to 6 ft., \$5.25.	
Dolgo, 5 to 6 ft., \$4.50; 6 to 7 ft., \$5.75.	
Atroranguinea (5 ft. standards), 3 ft. heads, \$11.50.	
White Redbud, 2 to 3 ft., B&B, \$7.00.	
Purple-leaved Plum (Thunder Cloud), 1 to 1 1/4-in. cal., \$4.00; 1 1/4 to 1 1/2-in. cal., \$5.00.	
Cotoneaster divaricata, 3 1/2 ft. high by 4 to 5 ft. broad (heavy), B&B, \$6.50.	
Sunburst Locust, 1 1/2 to 2-in. cal., \$16.00; 2 to 2 1/2-in. cal., \$21.00.	
Pickup at nursery or delivery arranged.	
Bristow's Nursery, 6909 Garden Rd., Maumee, O. (5 miles from Toledo).	

ROOTED CUTTINGS FROM SAND

All cuttings 6 to 8 ins.

Ilex crenata, Ilex convexa bullata, Taxus, Intermedia, hickel, thayerae, kelseyi, hatfieldi, cuspidata, \$9.00 per 100. Also 2000 hybrid Rhododendrons, 2000 Pteris japonica, grown 24 to 36 in. in soil; English Ivy and Pachysandra, in flats and pots.

BRAND'S NURSERY

912 Park Ave. Huntington, L. I., N. Y.
Phone Hamilton 3-2456

HEAVY ROOTED CUTTINGS OUT OF SAND

	June 1	Per 100	Per 1000
10,000 Taxus hickel, 4 to 6 ins.	\$11.00	\$100.00
10,000 Taxus browni, 4 to 6 ins.	11.00	100.00
5,000 Taxus hunnewelliana, 4 to 6 ins.	11.00	100.00
10,000 Taxus, small amts. of each:			
cusp., veruculeni, thayerae:			
4 to 6 ins.	11.00	100.00
8,000 Ilex hetzi, 4 to 6 ins.	11.00	100.00
5,000 Ilex rotundifolia, 4 to 6 ins.	11.00	100.00
4,000 Ilex convexa, 3 to 5 ins.	10.00	90.00

Vrooman Rd. HOLLY NURSERY Painesville, O.

LOMBARDY POPLAR		2-yr., heavy branched.
4 to 5 ft.	.....	40c each
5 to 6 ft.	.....	50c each
6 to 8 ft.	.....	60c each
1 to 2 ft.	.....	4c each
2 to 3 ft.	.....	8c each
3 to 4 ft.	.....	12c each
5 to 6 ft.	.....	16c each
6 to 7 ft.	.....	25c each
Packing at coast.		

PAUL'S NURSERY Shelby, O.

AMERICAN ARBORVITAE

CLUMPED BIRCH (papyrifera)

To clean out area, will sacrifice over 4000 plants.

Arborvitae, 30 ins. to 4 ft., \$1.00; 4 to 7 ft., \$1.50. All sheared.

Hemlocks, XX, 20 to 36 ins., \$1.25.

Clump Birch, 7 to 12 ft., \$2.00.

You dig. We are located 10 miles north of Bedford interchange on the Pa. turnpike.

HEMLOCK HILL NURSERY, New Paris, Pa.

Phone Fishertown 17-R-41

B&B STOCK FOR SPRING SALES

White Spruce, sheared; 2 1/2 to 3 ft. \$2.65

White Spruce, sheared; 3 to 4 ft. 3.25

Norway Spruce, sheared, 4 to 5 ft. 3.75

Douglas Fir, sheared; 4 to 5 ft. 4.50

White Pine, sheared; 4 to 5 ft. 4.50

Collected:

Sweet Gum, 1 1/2 to 1 3/4-in. cal. 3.50

White Birch, 1 1/2 to 1 3/4-in. cal. 3.50

Pin Oak, 1 1/2 to 1 3/4-in. cal. 5.00

W. V. GRIFFIN

8 Elizabeth Ave. (Herbert's Corner) Phone CL 7-2484 Milltown, N. J.

SURPLUS STOCK

1000 Rhododendron America, very heavy fall liners, 9 to 12 ins. tall, well-branched, \$1.00.

600 Rhododendron America, lighter grade, 80c.

2000 Berberis atropurpurea nana, 6 to 9 ins., bare-root, \$50.00 per 100.

2000 Berberis atropurpurea nana, 2-yr., bare-root, \$25.00 per 100.

ASK FOR OUR NEW LINER LIST.

WEST OREGON NURSERY

3550 N.W. Saltzman Rd. Portland 10, Ore.

PIN OAK

2 to 3 ft. \$0.50 each

3 to 4 ft.75 each

4 to 5 ft. 1.00 each

5 to 6 ft. 1.50 each

CORNUS SIBIRICA (Red twig Dogwood)

Full, heavy plants.

3 to 4 ft.60 each

4 to 5 ft.75 each

Packing at coast.

PAUL'S NURSERY Shelby, O.

CHINESE ELM, SPRING DUG

Transplants, bare-root.

5 to 6 ft., 1/2 to 3/4-in. \$0.50

6 to 8 ft., 1/2 to 1-in.75

8 to 9 ft., 1 to 1 1/4-in. 1.00

9 to 10 ft., 1 1/4 to 1 1/2-in. 1.25

10 to 12 ft., 1 1/2 to 2-in. 2.00

2 to 3 ft. seedlings, per 100 5.00

3 to 4 ft. seedlings, per 100 7.00

4 to 5 ft. seedlings, per 100 10.00

WEITZEL'S NURSERY

2900 West 9th St. North Platte, Neb.

PIN OAK (LARGE SPECIMENS)

Nursery-grown, drum-laced ball, loaded on your truck.

3 1/2 to 4-in. caliper \$7.20

4 to 4 1/2-in. caliper 80.00

4 1/2 to 5-in. caliper 110.00

Also a few Red Oak and Sweet Gum, same prices.

GEORGE F. BLOOMER NURSERIES

Route 69 Phone Flemington 155-J Flemington, N. J.

SHADE TREES AND EVERGREENS

Available for immediate delivery.

100 Acer platanoides, 2 1/2 to 3-in. caliper

500 Taxus cuspidata, 3 to 4-ft. spread

5000 Austrian Pines, 4 to 20 ft.

5000 Red Oak, 2 to 8-in. caliper

SEND US YOUR WANT LIST.

Write for prices, or call

THE BUDDIES NURSERY

P. O. Box 14 Birdsboro, Pa.

Phone Juniper 2-7257

BIRCH, CUTLEAF WEEPING

10 to 50 ft. Each

Waynesboro Nurseries

Waynesboro, Va.

SHRUBS AND TREES

Golden Syringa, 15 to 18 ins.	.....	75c
Forstythia spectabilis, 3 to 4 ft.	.....	50c
Euonymus alatus, 2 to 3 ft.	.....	85c
Barberry, green; 15 to 18 ins.	.....	22 1/2c
Barberry, green; 18 to 24 ins.	.....	27 1/2c
French Lilacs, 2 to 3 ft.	.....	85c

(for B&B, add 50c each)

Silver Maple, 6 to 8 ft., \$1.50.

THE FRENCH NURSERY CO. Clyde, O.

NURSERY STOCK

TAXUS, RHODODENDRONS, JAPANESE

MAPLE, AZALEAS, HOLLIES, MAGNO-

LIAS, DOGWOODS and other choice found-

ation: planting stock in both finished and

lining-out grades. Catalog upon request.

Buy the best, "BUY KLYN'S."

GERARD K. KLYN, INC., MENTOR, O.

Wholesale Rose Growers and Nurserymen

IN THE HEART OF FAMOUS LAKE CO.

PINUS STROBUS (WHITE PINE)

Nursery-grown transplants. Each, 10 100

2 to 3 ft., B&B \$1.50 \$1.25

3 to 4 ft., B&B 2.25 2.00

4 to 5 ft., B&B 3.00 2.75

5 to 6 ft., B&B 4.25 4.00

Large specimens quoted by request.

J. A. WEDDINGTON & SON

4414 Holston Dr. Knoxville 14, Tenn.

Phone 3-4417

SYCAMORE

(American Plane Tree)

2 to 4 1/2 ins.

Also a few Pin Oaks,

3 to 4 1/2 ins.

Hawthorns, all sizes.

Delivered in Chicago area.

COX TREE SERVICE

Huntingburg, Ind.

PIN OAK SEEDLINGS

(Quercus palustris)

2-YR., FIELD-GROWN SEEDLINGS

Per 100 Per 1000

12 to 18 ins. \$ 8.00 \$ 75.00

18 to 24 ins. 12.00 100.00

2 to 3 ft. 18.00 150.00

WATKINS NURSERIES

Midlothian, Va.

SHADE TREES

Well-spaced, good shape.

Carpinus fastigiata, 8 to 10 ft.

Mountain Ash, 8 to 10 ft.

White Ash, 2 to 3-in. caliper

Norway Maple, 3 to 5-in. caliper

Pin Oak, 4 to 7-in. caliper

Cherry Laurel, 2 to 3-ft. spread

COLES NURSERIES

Furlong, Bucks Co., Pa.

RHODODENDRONS AND AZALEAS

Rooted cuttings and liners.

Propagators.

GLADSGAY GARDENS NURSERY

6311 Thres Chopt Rd.

Richmond 26, Va.

PINK MIMOSA

EXCELLENT STOCK

Per 100 Per 1000

6 to 12 ins. \$ 3.00 \$ 25.00

15 to 20 ins. 5.00 40.00

36 to 48 ins. 15.00 100.00

5 to 6 ft., heavy 50.00

6 to 8 ft., heavy 80.00

50 at 100 rate. Send for list.

RIEDEL PLANT CO., EXPERIMENT, GA.

COLLECTED STOCK, B&B

Rhododendron maximum, 1 1/2 to 7 ft.

Acer rubrum, 1 1/2 to 3-in. cal.

Gray Birch, 3 stems or more.

BARRY'S EVERGREEN NURSERY

White Haven, Pa.

Norway Maple, 8 to 10 ft. \$ 4.50

Sugar Maple, 3-in. caliper 15.00

Red Maple (rubrum), clump; 8 to 10 4.50

European White Birch, clump, 10 to 12 6.00

C. L. Weeping Birch, 10 to 12 5.50

Fruit trees, bearing size 2.50

Roses, in pots, \$90.00 per 100.

General assortment shrubs, perennials, in pots.

SHRUBS and TREES—Continued

Crape Myrtle, thousands of pink, sparkle brilliant red. Nursery grown, full, well-developed bushes, good roots. 18 to 24 ins. \$25.00 per 100
2 to 3 ft. 35.00 per 100
3 to 4 ft. 50.00 per 100
Attractive price on 1000 or more lots. Satisfaction guaranteed.
Robinson Nursery Co., Greenville, Ga.

LANDSCAPE ARCHITECTS:
We have made a specialty of growing large landscape material for the past 30 years. We cordially invite you to inspect our stock.
GEORGE F. BLOOMER NURSERIES
Route 69 Flemington, N. J.
Phone Flemington 15-J

SHADE AND FLOWERING TREES
See our display ad, March 1 issue. Ask for special prices on truckload lots.
WAYNESBORO NURSERIES
Waynesboro, Va.

Mugho Pine, B&B, 15 to 18 ins. \$3.75
Mugho Pine, B&B, 18 to 24 ins. 4.75
Mountain Ash (European), 5 to 6 ft. 1.25
Mountain Ash (European), 6 to 8 ft. 1.75
The Pequot Nurseries, Brainerd, Minn.

SHRUBS and TREES
See our Classified ad in this issue under **LINING-OUT STOCK.**
T. G. OWEN & SON, INC.
Columbus, Miss.

CRYPTOMERIA JAPONICA
1-yr. seedlings, \$5.00 per 100, \$45.00 per 1000. Delivery after middle of May.
BOULEVARD NURSERIES
Newport, R. I.

Collected Mtn. Laurel, 6 to 10 ins. 100, \$15.00. Collected Sugar Maple, 3 to 4 ft., 100, \$15.00.
Maplewood Nurseries, Franklin, N. H.

STRAWBERRIES

WHOLESALE BULK STRAWBERRY PLANTS
F.O.B. Bristol, Ind.
If you have your own cold storage facilities, our bulk price list will interest you. For large quantity quotation, please write.
JUNE BEARING Per 1000

EARLY VARIETIES
•Blakemore \$ 9.50
•Premier 12.00
•Premier 12.00
•Red Glow 14.00

EARLY MIDSEASON
•Dunlap 9.50
•Bellmar 10.00
•Fairfax 12.00
•Fairland 12.00
•Pocahontas 12.00
•Wisconsin 214 14.00

MIDSEASON
•Robinson 10.00
•Catskill 12.00
•Empire 12.00
•Armora 12.00
•Sparkle 12.00
•Tennessee Beauty 12.00
•Vermillion 12.00
•Sure Crop 14.00
•Paymaster 14.00
•Jumbo 20.00

LATE
•British Sovereign 12.00
•Pleasant 14.00

EVERBEARING
•Gem 20.00
•Superfection 20.00
•Streamliner 22.00
•Twentieth Century 28.00
•Red Rich (plant pat. No. 993) 78.00
Established retail prices on Red Rich: 12 plants, \$2.95; 25 plants, \$5.00; 50 plants, \$8.50; 100 plants, \$15.00; 250 plants, \$32.50; 500 plants, \$62.50; 1000 plants, \$120.00.

*Grown from virus-free planting stock.
JUDSON NURSERIES, INC.
Phone 1-2945 Bristol, Ind.

Strawberries, certified. Hardy, Ozark-grown, well-rooted plants. Blakemore, Dunlap, Robinson, Tenn. Beauty, Florida No. 90, \$7.00 per 1000. Armora, Aroma, Fairfax, Catskill, \$8.00 per 1000. Pocahontas, Dixie-land, \$9.00 per 1000. Everbearing: Superfection, Gem, Streamliner, \$12.50 per 1000. All plants in bundles of 25, fresh dug, well-packed, prompt shipment.
Hames Strawberry Nursery, Goodman, Mo.

STRAWBERRY PLANTS
Double Inspected. Per 1000
Dunlap \$ 8.00
Blakemore 8.00
Robinson 8.00
Premier 10.00
Armora 10.00
Everbearing Superfection or Gem 16.00
Ogallala, new everbearing 40.00
DOLLAR NURSERY, BLOOMFIELD, IA.

PELLETT'S STRAWBERRY PLANTS
IOWA-GROWN, VERY PROMPT SERVICE
Senator Dunlap \$ 8.00 per 1000 per crate of 2500, \$18.75.
Robinson 8.00 per 1000
Superfection, everbearing 17.00 per 1000
Gem, everbearing 15.00 per 1000
PELLETT GARDENS, ATLANTIC, IA.

TAXUS

TAXUS CAPITATA
The seed was imported from Japan. The plants are strong selected 4-yr. transplants. Two years ago when the stock was transplanted, only selected plants were picked to grow on. Per 100 Per 1000
(EACH) (EACH)
4-yr., T. 10 to 15 ins. heavy. \$0.45 \$0.40
C. HOOGENDOORN, NURSERYMAN
413 Turner Rd. Newport, R. I.

ROOTED CUTTINGS, READY MAY 1

Taxus hatfieldi No. 7
Taxus hicksii.
Taxus intermedia.
Taxus Klein 66,
\$85.00 per 1000.

THEO. KLEIN NURSERY
Crestwood, Ky.

TRITOMAS

TRITOMA PFITZERI (RED-HOT POKER)
No seedlings. True all fall blooming. The exclamation point of the garden.
100 strong plants, \$15.00; 250 strong plants, \$30.00; 1000 strong plants, \$100.00. Larger quantities, ask for price.
JOHN M. ELZINGA
P. O. Box 142 Benton Harbor, Mich.

VEGETABLE PLANTS

WHOLESALE PRICE LIST 1959
Plant variety Date ready Per 1000
Cabbage Now \$2.00
Onion Now 1.50
Lettuce Now 4.00
Broccoli Now 4.00
Cauliflower Now 4.00
Pepper April 15 4.50
Eggplant April 15 4.50
Tomato April 15 4.00
Hybrid Tomato April 15 5.00
All above prices F.O.B. Albany.

Quantity prices on 100,000 lots upon request. Leading varieties, large, fresh plants. Prompt shipment. Write for catalog.

Write or wire,
PIEDMONT PLANT CO.
Dept. 905 Albany, Ga.

Classified Ads Offer Maximum Results at Minimum Cost.

VIBURNUMS

VIBURNUM CARLESI Per 10 Per 100
15 to 18 ins., not balled \$15.00 \$125.00
18 to 24 ins., not balled 20.00 175.00
2 to 2½ ft., not balled 25.00
2½ to 3 ft., B&B 42.50
3 to 4 ft., B&B 50.00
WAYNESBORO NURSERIES
Waynesboro, Va.

SUPPLIES**BURLAP**

HOLLAND BURLAP squares, for all needs. **VIKING CLOTH**, a film imbedded Burlap, in squares, used instead of tarps, and in 50-yard rolls, 5 ft. wide, \$38.00.
HALF MOON CO., Box 27A, Plainfield, N. J.

CANE STAKES

LIGHTNING SERVICE
ON
FRESHLY IMPORTED
JAPANESE BAMBOO CANE STAKES
from
NEW YORK, CHICAGO, PORTLAND, ORE.
Write for our competitive prices and generous quantity discounts.
McHUTCHISON & CO.
695-N Grand Ave. Ridgefield, N. J.
2505 S. E. 11th Ave. Portland 2, Ore.

CANE STAKES
Green dyed and plain yellow Bamboo. All sizes.

GOLD MEDAL BRAND
Your guarantee of satisfaction. Come to American headquarters when you are in the market.

GEO. H. MAUS, INC.
BAMBOO IMPORTERS
Since 1905 Amsterdam, N. Y.

BAMBOO CANE STAKES
For greenhouse and nursery purposes. All types and sizes.
Write for prices and quantity discounts.
ALEC HENDERSON, INC.
1313 W. Randolph St. Chicago 7, Ill.

OUTDOOR BAMBOO STAKES
All sizes for immediate delivery. Ask for our Nursery Supply List.
HALF MOON CO., Box 27A, Plainfield, N. J.

VIBURNUM CARLESI COMPACTA (NEW)
This is a compact form of Viburnum carlesii with dark green leaves and buds up very readily.
(EACH) (EACH)
Strong 2-yr. grafts \$1.50 \$1.25
Per 100 Per 1000

C. HOOGENDOORN, NURSERYMAN
413 Turner Rd. Newport, R. I.

KOREAN FRAGRANT VIBURNUM
VIBURNUM CARLESI, one of the best.
2 to 3 ft., B&B \$3.50
3 to 4 ft., B&B 5.00
Larger specimens according to value.
GEORGE F. BLOOMER NURSERIES
Route 69 Flemington, N. J.
Phone Flemington 155-J

VIBURNUM ODORATISSIMUM
Clean and healthy
2½-in. pots, \$15.00 per 100.
COTTAGE HILL NURSERY
4000 Japonica Lane Mobile, Ala.

VINCAS

VINCA MINOR (PERIWINKLE)
Hardy field-grown plants, clumps.
10 to 20 leads \$45.00 per 1000
20 to 30 leads 60.00 per 1000
Order now for spring planting. 2 per cent discount for cash.

J. A. WEDDINGTON & SON
4414 Holston Drive Knoxville, Tenn.

WANTED

WANTED
SURPLUS NURSERY STOCK
for distribution to chain store accounts in the East and Midwest. Send us your list of surplus stock with price list for volume shipments. Call us for immediate action.

ARTHUR GAKIS
43-45 Summer St. Somerville 43, Mass.
Phone MOnument 6-3015

WANTED
700 Juniperus pfitzeriana, 2 to 2½ ft. spread
600 Taxus brevifolia, 2 to 2½ ft. spread
400 Taxus hatfieldi, 2½ to 3 ft. high
15 Platanus acerifolia, 9 to 10-in. cal.
F.O.B. New York City. Perfect No. 1 grade.
SAXE CONTRACTING CO.
136 E. 57th St. New York 22, N. Y.

Wanted—Rare and unusual Evergreens; variegated, pendulous, prostrate, fastigiata and dwarf forms of both conifers and broad-leaved Evergreens. Please write.
John D. Corbit, Jr., 821 Hagys Ford Rd., Narberth, Pa.

Wanted—Lythrum Mordens Gleam, rose-pink; sizable quantities desired. Airmail prices and quantities available to
Ginden Nursery Co., 139 S. El Camino, San Bruno, Calif.

CHRISTMAS TREES

10,000 Scotch Pine, Cattaraugus County, N. Y. Christmas trees. First cutting. Write.
J. D. Perry, R. 2, Mayville, N. Y.

COLOR TAGS

COLOR PICTURE TAGS
Quick shipments. Reasonably priced. Shrubs, shade, fruits, vines, flowering trees, etc. Write for price list.

GLOBE NURSERIES
Box 249 McMinnville, Tenn.

CONTAINERS

EGG CANS
By car or truckloads.
Carloads, unpainted, unpunched, 8c to 10c at source; freight to be added. Approximately 7000 per carload.

Also available at Scottsville at these prices: Unpainted, unpunched, 17c; painted and punched, 22c.
Approximately 2000 per truckload. Prices subject to market changes.
All prices **NET CASH.**
VERHALEN NURSERY CO.
Scottsville, Tex.

KNOCKED-DOWN CANS
(Pat. No. 2833087)
Shipped and stored flat.

New tin sheet metal cans, now available in 3 sizes, to enable nurserymen and retailers to sell roots with their stock. Grow in tin cans that will eliminate your packaging and replacement problems.

Write for prices and sizes.
BENSON & WEDDING
Knocked-Down Cans
16730 Sayre Ave. Tinley Park, Ill.

FERTILIZERS

PETERS SPECIAL

CONTAINER-GROWING FERTILIZERS
All materials listed are ideal for container-growing purposes.

SOLUBLE FERTILIZERS

21-7-7 Azalea Neutral (non-acid forming)
21-7-7 Azalea Acid (heavy acidifying action)
Both above, \$6.50 per 25-lb. bag.

LONG-LIFE FEEDS

20-20-20 General Purpose Feed
\$7.00 per 25-lb. bag, \$24.00 for 4 25-lb. bags.
13-6-6 Organic Special Du Pont Uramite
Nitrogen and highest grade natural organics. The finest long-life dry feed. Unexcelled for containers.

\$7.50 per 25-lb. bag, \$28.00 for 4 25-lb. bags.
Du Pont Uramite, 38 per cent nitrogen from methyl-urea, \$12.00 per 50-lb. bag.
Also available: Chelated Iron, Chelated Trace Element Complexes, Fritted Trace Elements, etc.

FRITTED POTASH

Contains 32 per cent K₂O, plus fritted trace elements. Will not leach away. Gives 6 to 9 months' assured supply of Potash, regardless of leaching rain or heavy watering. \$9.00 per 25-lb. bag; \$8.00 per 25-lb. bag for 4 to 39 bags.

Write for complete price list.

Freight prepaid to any state in the Union with the exception of Alaska, on all orders totaling \$60 lbs. or more. West of the Mississippi, add 2c per lb. on 300 lbs. and over, prepaid shipments. F.O.B. Allentown, Pa., on all orders less than 300 lbs.

ROBERT B. PETERS CO.

323 North 15th St. Allentown, Pa.

Small Ads Do Great Things in the American Nurseryman Classified Section.

FLATS

WHITE CEDAR FLATS

Order by No.	Size I.S.M.	Price per 100	Wt. per 100
No. 1	14x20x2 1/2-in.	\$27.00	320
No. 2	14x20x3-in.	31.50	400
No. 3	12x16x2 1/2-in.	20.75	260
No. 4	12x16x3-in.	24.50	275
No. 5	14x16x2 1/2-in.	23.25	275
No. 6	14x16x3-in.	27.50	290
No. 7	15x22x2 1/2-in.	36.75	380
No. 8	15x22x3-in.	35.50	425
No. 9	11 1/4x22x2 1/2-in.	25.00	320
No. 10	11 1/4x22x3-in.	29.00	400
No. 11	14x16x5-in.	32.75	450
No. 12	5x11x5-in.	16.75	160
No. 13	5x16x5-in.	19.00	215

Plant boxes 5x8x2-in. 5.50
Skeletone flats to carry TEKPAKS and similar growing containers. (Write us for price list.)

All other sizes quoted on request.
5 per cent discount on orders of 1000 or more; 10 per cent discount on carloads of 30,000 lbs. or more.

Bottoms and sides are 3/4-in. thick and ends are 1/2-in. thick. All material surfaced on one side.

Your name and address printed, up to 3 lines in black ink, on one or both end pieces at the following rates: \$1.00 setup charge plus 1/4c per end and piece for the first 1000 ends; 1/8c per end thereafter.

Shipped knocked-down in units of 25. F.O.B. Cook. All shipments by truck unless otherwise specified. Attach check.

H. C. HILL & SONS

Manufacturers of flats, dowels and specialties.

Phone North 6-3348, Cook, Minn.

CYPRESS FLATS

TOP-GRADE FLATS THAT LAST

No.	Size I.S.M.	Per 100	Wt
1	14x20x2 1/2-in.	\$25.00	590
2	14x20x3-in.	29.00	680
3	12x16x2 1/2-in.	20.00	440
4	12x16x3-in.	24.00	530
5	14x16x2 1/2-in.	22.00	510
6	14x16x3-in.	26.00	590
7	15x22x2 1/2-in.	29.00	670
8	15x22x3-in.	33.00	780
9	11 1/4x22x2 1/2-in.	23.00	540
10	11 1/4x22x3-in.	28.00	630
11	14x16x5-in.	30.00	720
12	5x11x5-in.	16.00	300
13	5x16x5-in.	18.00	380

Any size to order. Write for price list on skeletone flats. Bottoms and sides 3/4-in. thick; ends 1/2-in.; all planned one side. 5 per cent discount on orders of 500 or more. Check with order. Up to 3 lines printing in black ink if desired; \$1.00 setup charge plus 1c per end piece. Shipped K.D. in bundles of 25. F.O.B. Williamston, by truck, unless specified otherwise.

H. C. HILL & SONS

P. O. Box 747, Williamston, N. C.
Phone Swift 2-4127

REDWOOD FLATS, K.D.

Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure, \$38.00 per 100.

1x1-in. Cypress stakes, pointed.

50 pcs. to bundle, 4 ft., \$3.50 per bdl.
50 pcs. to bundle, 5 ft., \$4.50 per bdl.
50 pcs. to bundle, 6 ft., \$5.50 per bdl.
Ship same day. Cash with order, please.
YOH & HOOKER, YOUNGSTOWN 2, O.

GRAFTING MATERIALS

GENUINE GRAFTING WAX

In bulk chunks. Apply with a small brush after melting wax by heat.

1 lb., \$0c, plus postage. Cash, please.

KETTLE NURSERY

922 N. Second St. Platteville, Wis.

HEATERS

LP AND NATURAL GAS UNIT HEATERS

Rest for plastic houses. Quick delivery. Prices start as low as \$167.00. Write for information on all unit heaters.

ROUGH BROS.

4229 Spring Grove Ave. Cincinnati 23, O.

IRRIGATION EQUIPMENT

IRRIGATION EQUIPMENT

Buy direct from factory. New or used pumps, aluminum or steel irrigation pipe, fittings, irrigation well service. Moulton Eagle boom sprinkler, 3 sizes. Write for free catalog.

MOULTON IRRIGATION CO.

Dept. ANS Withrow, Minn.

LABELS

DAHLIA OR TREE LABELS

	Priced per carton	Plain	Painted
3 1/4 x 5 ins., notched, not wired.	\$3.00		\$3.60
3 1/4 x 5 ins., wired (copper).	2.95		4.90

POT LABELS

4x4 ins. (cartons 1000 each)	2.95	4.60
6x4 ins. (cartons 1000 each)	4.30	5.10
6x4 ins. (cartons 1000 each)	4.70	5.80

Priced per carton

	Plain	Painted
8x4 ins. (cartons 500 each)	\$3.60	\$4.30
10x4 ins. (cartons 500 each)	4.20	5.10

GARDEN STAKE LABELS

8x4 ins. (cartons 250 each)	2.00	2.60
10x4 ins. (cartons 250 each)	2.30	2.90
12x1 1/2 ins. (cartons 100 each)	2.00	2.40

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

"We ship same day."

YOH & HOOKER, YOUNGSTOWN 2, O.

ORCHID SUPPLIES

HOOF AND HORN MEAL

Slow acting source of nitrogen.
1 lb., 20c; 25 lbs., \$4.50; 100 lbs., \$14.50.

AMMONIUM NITRATE

A rapid source of nitrogen.
1 lb., 15c; 25 lbs., \$2.75; 80 lbs., \$7.50.

FISH MEAL

High protein content (approx. 64 per cent).
1 lb., 60c; 5 lbs., \$2.75; 10 lbs., \$5.00.

SHREDDED WAX PAPER

For packing, protecting blooms.
1 lb., 85c; 10 lbs., \$7.50; bale, \$35.00.

Priced F.O.B.

WRIGHTWOOD FLORAL CO.

1420 Wrightwood Ave. Houston 9, Tex.

Sell Stock Quickly and Easily with American Nurseryman Classified Ads.

PEAT MOSS

"BRODLEAF" Holland Peat Moss. Carlots. Standard 7 1/2 cft. Gardener 6 cft. and Halves. Jumbo for growers, two bales equal three. HALF MOON CO., Box 27A, Plainfield, N. J.

PLANT FOOD

CHLOROMONE

Liquid plant hormone.

4-oz. jar	\$ 3.00
Case of 12	23.40
Case of 24	43.20
Gallon tins	45.90

HESS' NURSERIES

P. O. Box 128 Wayne, N. J.

Turn your Surplus Stock

into cash
with a Classified Ad in the American Nurseryman.

PLASTIC FILM

POLYETHYLENE FILM

1 1/2 mil., black, in 1000-ft. rolls, 3 ft. wide, \$20.40; 4 ft. wide, \$27.00.
3 mil., natural, in 200-ft. rolls, 4 ft. 2 in. wide, \$8.00; 8 ft. 4 in. wide, \$15.00; 12 ft. wide, \$21.60.

4 mil., natural, in 100-ft. rolls, 3 ft. wide, \$6.00; 4 ft. wide, \$8.00; 6 ft. wide, \$11.20; 8 ft. wide, \$14.40; 10 ft. wide, \$18.00; 12 ft. wide, \$21.60; 14 ft. wide, \$25.20; 16 ft. wide, \$28.80; 20 ft. wide, \$36.00; 24 ft. wide, \$43.20; 28 ft. wide, \$50.40; 32 ft. wide, \$57.60.
10 per cent discount on orders over \$24.00.
20 per cent discount on orders over \$60.00.
35 per cent discount on orders over \$60.00.

We pay freight if check is with order.
6 mil. available in width up to 32 ft.

ROUGH BROS.

4229 Spring Grove Ave. Cincinnati 23, O.

POLYETHYLENE FILM

SUN-RESISTANT BLACK for mulching.

.0015 MIL.
3 ft. x 500 ft. \$ 7.75 roll
3 ft. x 1000 ft. 15.50 roll
4 ft. x 1000 ft. 20.50 roll

NATURAL TRANSPARENT ONLY.

.002 MIL., ALL ROLLS 200 FT. LONG.

4 ft. 2 ins. x 200 ft. \$ 6.25 roll
8 ft. 4 ins. x 200 ft. 12.50 roll
12 ft. x 200 ft. 17.70 roll

NATURAL TRANSPARENT ONLY.

.004 MIL., ALL ROLLS 100 FT. LONG.

3 ft. x 100 ft. \$ 5.00 roll
4 ft. x 100 ft. 7.00 roll
6 ft. x 100 ft. 11.00 roll
8 ft. x 100 ft. 15.00 roll
14 ft. x 100 ft. 20.50 roll

MINIMUM ORDER .004 mil. 4 rolls up to

8 ft. Write for low prices on quantity orders.

Other sizes and mil. weights available up to 40 ft. in natural and black film.

PHONE Baldwin 3-8277.

DAYTON NURSERY & GARDEN SALES

P. O. Box 763 Dayton 1, O.

POLYETHYLENE FILM

Natural transparent, made from Du Pont Alathon, the amazing film for greenhouses.

.004 mil., all rolls 100 ft. long.

3 ft. wide by 100 ft. long \$ 6.00 per roll
4 ft. wide by 100 ft. long 8.00 per roll
6 ft. wide by 100 ft. long 12.00 per roll
8 ft. wide by 100 ft. long 16.00 per roll

Other sizes available up to 20 ft. wide.

Send \$1.00 for liberal sample,
4 ft. x 10 ft. postpaid.

Special deal for greenhouse construction.

5 rolls to 9 rolls, 25 per cent discount.

100 rolls or more, 33 1/3 per cent discount.

"We ship same day."

YOH & HOOKER

520 Williamson Ave. Youngstown 1, O.

VIKING-CLOTH, a film embedded in Burlap.

POLY-FILM, all in Sheets and Rolls.

HALF MOON CO., Box 27A, Plainfield, N. J.

PLASTIC GREENHOUSES

PLASTIC GREENHOUSES

Quonset type, including ribs, galvanized wire and Visqueen cover. Can be set up in one day. 16 ft. x 47 ft. 6 ins., \$25.00; 16 ft. x 97 ft. 4 ins., \$45.00. Gables and foundation not included. Freight prepaid if check is with order.

ROUGH BROS.

4229 Spring Grove Ave. Cincinnati 23, O.

Watch Your Results From

American Nurseryman Classified Ads.

RUBBER TUBING

RUBBER TUBING FOR

GUYING WIRE.

3/16-in. inside dia. by 1/2-in. outside dia.

6 150-in. lengths for \$3.50; 60 lengths for \$30.00. Cash with order. F.O.B. Middlefield, O. Let us quote you on any size and length cut desired.

MARKAY NURSERY

Lake St. Middlefield, O.

More customers for you!

Over 9,500 subscribers, all active buyers,

see your ad in the American Nurseryman.

SPHAGNUM MOSS

Fresh, clean sphagnum moss, write or phone City Point 133 for our low prices on wirebound bales in truckloads or carlots.

Pure Sphagnum Moss Co., City Point, Wis.

NO. 1 SPHAGNUM MOSS

Large burlap bales, long fibered, clean, firmly packed; bale, \$1.25.

JOSEPH JAMROS, CITY POINT, WIS.

Long-fibered sphagnum moss, also ground moss. Price up on truckloads delivered.

Warrens Moss Co., Warrens, Wis.

Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads

STAKES

CYPRESS PLANT STAKES

50 pieces to bundle.

1x1-in.—3 ft., pointed \$3.00 per bundle

1x1-in.—4 ft., pointed 3.50 per bundle

1x1-in.—5 ft., pointed 4.50 per bundle

1x1-in.—6 ft., pointed 5.50 per bundle

1x1-in.—7 ft., pointed 7.00 per bundle

These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than seems necessary."

WE SHIP SAME DAY!

YOH & HOOKER

Youngstown 2, O.

STAKES, GALVANIZED HARD STEEL

GALVANIZED TREE GUYING WIRE,

HOSE for guywire FADDING.

Prices and samples sent on request.

SCHUPP SUPPLY CO., WILMETTE, ILL.

PLAN CENTENNIAL GARDEN

[Concluded from page 97]

tion will be supplied if it is needed. Nurserymen at the meeting showed considerable enthusiasm over the garden, and fulfillment of the needs seems assured.

Serving on an advisory committee for development of the "International Garden of Tomorrow" are Jan de Graaff, Oregon Bulb Farms, Gresham; Avery Steinmetz and Paul Van Allen, Portland Wholesale Nursery; Henry Hausch, Roseway Nurseries, Beaverton; Richard McCarter, Swan Island Dahlias, Canby; Walter Marx, Walter Marx Gardens, Boring; E. (Mike) Dering, Peterson & Dering, Scappoose; Wayne McGill, A. McGill & Son, Fairview; Elmo Chase, Chase Gardens, Eugene; Robert Walker, Holgate Nursery Co., Portland; Ambrose Brownell, Brownell Farms, Milwaukie; Edgar L. Kline, bulb grower, Oswego; George Teufel, George Teufel Holly Farm, Portland; Fred Trullinger, Portland Seed Co.; Dr.

Matthew C. Riddle; Stephen Swan, and Harry Buckley.

Donald Stryker, nurseryman, Langlois, and Norvell Gillespie, writer, are horticultural advisers. Dean Collins, feature writer for the Oregon Journal, is state coordinator. C. H. P.

OREGON NOTES

Ten garden shops of the Portland area have joined with the Portland Seed Co., Sunshine Peat Moss Co., and the California Spray-Chemical Co. in the most ambitious advertising program yet seen in this line of business in the area. The 10 garden shops raised \$450 each for a total of \$4,500, which was matched by the three wholesale companies, making a total of \$9,000. The money is being spent in a 10-week advertising program calling for 150 spot announcements on radio; one advertisement for each garden shop on television, and an open house for each firm, with advertising aimed each week

at one of the firms and its open house program. Each firm is to give away a power mower during its open house and each will offer a truckload of peat moss at greatly reduced prices.

The Columbia River chapter of the Oregon Association of Nurserymen scheduled a meeting at the Mallard restaurant, Gresham, the evening of February 26. Dr. R. M. Bullock, superintendent, Northern Willamette valley experiment station, spoke on the subject of "Chemical Weed Control."

The Willamette chapter of the O. A. N. met in the Marion hotel February 26. Program for the evening was supplied by Mrs. Charles Drew, Drew's Nursery, Beaverton, who showed pictures taken by her on a European trip.

An interesting article carried in the Sunday Oregonian Home and Garden magazine February 8 dealt with the first orchard established in Oregon by Henderson and Seth Lewelling. The orchard was planted at Milwaukie on a 100-acre claim

WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements.

Display: \$4.50 per inch, each insertion.

Lines: 40¢ line; minimum order \$4.00.

HELP WANTED

Due to increased business, we need the following experienced men:

1. Combination landscape architect and salesman—to call on customers.
2. Landscape planting foreman—must know plant material, balling and be able to handle men.
3. Nursery maintenance man—should be handy with tools and equipment; know plant material and balling. Furnished 2-bedroom house on premises.
4. Assistant manager for garden center—must be sharp in sales, merchandising and know allied lines.

Age: 25 to 45 years. Salary commensurate with ability and qualifications. Insurance benefits and bonus. Permanent, immediate employment. All men should be experienced and above average in initiative, ambition and workmanship. Furnish complete resume and photo in first letter. Location: Upper Midwest. Write Box 560, care of American Nurseryman.

HELP WANTED

NURSERY FOREMAN

To work with crew of 3 to 5 men; experienced in all phases of planting, pruning, shearing, balling and burlapping, etc. We have 40 acres of specimen nursery plants and trees requiring larger-size balling and have tractor and tree-moving equipment to handle larger sizes. Located in Kentucky. Man seeking permanent position only, please inquire. Give experience, age, references that can be used if progress is made, salary you would require, family, etc. Address replies to Box 579, care of American Nurseryman.

HELP WANTED

GARDEN CENTER PERSONNEL

1. Assistant manager for garden center—must be sharp in sales, merchandising and know allied lines.
2. Department supervisor for seed and bulb department. Must know seeds, flower and vegetable, and bulbs and insecticides. Age: 25 to 45 years. Salary commensurate with ability and qualifications. Insurance benefits. Permanent, immediate employment. All men should be experienced and above average in initiative, ambition and workmanship. Furnish complete resume and photo in first letter. Location: Central Michigan. Write Box 558, care of American Nurseryman.

HELP WANTED

Young college graduate who wants a permanent position with a future. Two steel companies now building new \$600 million plants in our immediate area will create a new city around us. We must expand to meet the resulting demand. We require a man who is willing and able to do everything connected with a nursery operation as if it were his own business—sketch, sell, grow and plant. Send complete personal history and snapshot in first letter together with expected starting salary. Our employees know of this ad.

DUNES NURSERY

c/o Kenneth Lackey
8333 Lake Shore Dr. Gary, Ind.

HELP WANTED

Excellent opening with an old-established firm near Boston, for a landscape salesman experienced in tree work. If interested give age and all pertinent information in first letter. All replies will be kept confidential. Write Box 567, care of American Nurseryman.

HELP WANTED

Landscape superintendent, designer, salesman. An excellent full-time position. Salary \$5200 to \$6500 plus percentage of profit. Midwest. Write to Box 575, care of American Nurseryman.

HELP WANTED

NURSERY FOREMAN

A man to take full charge of about 40 acres under cultivation, fairly well stocked. We are doing wholesale, retail and landscape work. Must be able to handle help. Year-round employment. Located in industrial section in Michigan. A good position for the right man. Write Box 577, care of American Nurseryman.

HELP WANTED

LANDSCAPE ESTIMATOR

Experienced nursery salesman, familiar with plants in the Chicago area and a basic knowledge of landscape design. Earnings on commission basis, \$6000 to \$8000. Write:

Nursery Dept.
AMLING'S FLOWERLAND
8900 W. North Ave.
Maywood, Ill.

HELP WANTED**LANDSCAPE FOREMAN**

We are interested only in the man who has had experience in high-class residential and institutional work. You must know men and equipment and be able to present a good appearance to the public. You will receive an above-average starting salary and the opportunity to advance with a progressive organization. Call or write:

E. WASSENAR & ASSOCIATES
1220 Fowler Ave. Evanston, Ill.
DAVIS 8-2368

HELP WANTED**SALES POSITION OPEN**

Medium-size midwestern grower-nurseryman has opening for wholesale salesman. Old, established firm growing a full line of ornamentals. Now concentrating on Great Lakes area, but need more coverage. Salary plus bonuses—no commissions. Send resume to Box 523, care of American Nurseryman.

SITUATION WANTED

Young family man of 37, desires position with possibility of future financial interest in garden center or nursery combination or would like to purchase same. Must be in western Oregon or Washington. 14 years' experience as owner and operator of garden center in Illinois. Moving to west coast in late June. Address replies to Box 587, care of American Nurseryman.

HELP WANTED**SALESMAN**

Need experienced design man, with sales ability, for permanent position with one of Virginia's leading nurseries. Salary commensurate with ability. In reply, please state marital status, age and experience.

WOOD-HOWELL NURSERIES, INC.
Lee Highway Bristol, Va.

HELP WANTED

Well-established landscape firm, Chicago area, has opening for combination landscape salesman-foreman; capable of selling; drawing rough plans; supervising; executive caliber. Excellent wages, fine future. Write full particulars. Our employees know of this ad. Reply to Box 521, care of American Nurseryman.

HELP WANTED**SALESMAN**

Two exclusive territories available July 1 with leading eastern wholesale nursery. Bare-root and expertly packaged line of deciduous material. Previous experience in wholesale sales or garden store operation desirable. Drawing account and commissions. Write giving full details to Box 590, care of American Nurseryman.

SITUATION WANTED — Experienced worker, originally from Holland, age 33, single, desires position in landscape gardening and maintenance supervision. Experience acquired at the state capitol grounds, Olympia, Wash. Will graduate in floriculture, June, 1959, from State College of Washington, Pullman. Excellent references. Pacific coast states and American employer(s) preferred. GARY VREEBURG, 300 Colorado, Pullman, Wash.

HELP WANTED — Monument Salesmen. Genuine marble and granite monuments. Agents wanted for local communities. No experience necessary. GUARANTEE MONUMENT CO., 479-A Marietta St., Atlanta 13, Ga.

HELP WANTED — Experienced man to take charge of garden center. \$100 per week, plus bonus. Reply to: JOHN GULDEMOND, R. D. 2, Harrisburg, Pa.

FOR SALE — Businesses may be offered for sale by use of a want ad liner such as this. Cost: 40¢ per line (minimum order \$4.00). Your ad will be seen by more than 9500 American Nurseryman readers.

FOR SALE**GRAPHOTYPE LABELING MACHINE**

Electric-powered, practically new, embosses plant names clearly on zinc tags which last a lifetime. Most effective and very simple to use. Will sacrifice for quick sale at approximately half of cost price. \$700 F.O.B. here.

CEDARBROOK NURSERY

Short Hills, N. J.

FOR SALE**RASPBERRY PLANT PATENT NO. 1567**

Burgundy in color. One of the finest berries grown. For particulars write to:

Conio F. Loretto, Sr.
LOREY FARMS
Versailles Plank Rd.
North Collins, N. Y.

FOR LEASE

Have a desirable location for a plant-land-type operation in the center of a growing town of 45,000 population. 200-ft. frontage and 300-ft. depth. Can be leased for short or long term at reasonable rate. For appointment write or phone:

G. S. KEITH
193 N. Main St. Manchester, Conn.
Phone: MI 9-8191

BUSINESS OPPORTUNITY**PARTNER WANTED**

I am interested in financing an energetic, experienced individual interested in the growing of nursery stock anywhere in the New England or neighboring areas. I will handle financing and sales to already established customers. Write me in confidence.

ARTHUR GAKLIS
43 Summer St.
Somerville 43, Mass.

SITUATION WANTED

Ambitious young man, college trained in botany, desires work with nursery. Familiar with conservation and forestry; highly interested in research and plant diseases. 24 years old, married, 3 children, veteran. Willing to relocate.

DEAN McCOSHLAND
5 E. Sycamore St. Liberty, Ind.

HELP WANTED — Landscape Foreman. We have year-round positions for 4 landscape foremen who know how to handle men and equipment. Must have knowledge of plant material and be able to install lawns and plantings both private and industrial. Nursery located in the Niagara Falls area. Starting salary \$5200 a year, plus benefits and bonus. Write Box 583, care of American Nurseryman.

WANTED TO BUY — Young, ambitious, married man wishes to purchase small retail nursery in midwest. Presently employed by a nursery. Has thorough knowledge of growing, retailing and landscaping. Write Box 589, care of American Nurseryman.

FOR SALE — New, growing garden center in southeastern Massachusetts. Nursery, perennials, hardy mum reputation, house plants, garden and gift shop. Expensively remodeled home, barns, Oryx greenhouse, lath house, 10 acres. Excellent potential. Reply to Box 566, care of American Nurseryman.

FOR SALE**PERENNIAL AND PROPAGATING NURSERY**

A going business in booming southwestern Ohio. Over 25 years at this location.

10 acres unsurpassed soil, fine Cape Cod residence, greenhouses, sales and packing buildings. All at edge of town on heavily traveled interurban state highway, a few minutes from great turnpikes running north, south, east and west.

Outstanding advantages in both growing and selling facilities. Deep friable silt loam, black and also light colored. $\frac{1}{2}$ -acre pure sand. Nationwide, long-established following in wholesale. Ideal retail location and setup.

Owner retiring. Possession this spring or when desired. Pay out of annual income. Down payment of about \$22,000. Write Box 584, care of American Nurseryman.

FOR SALE

Invest \$5,000 and start yourself on the road to ownership of one of the finest nursery opportunities in southern Michigan or purchase outright at reasonable terms. Present owner desires a qualified young nurseryman to start. Ideal stock, close to metropolitan centers of southern Michigan. Excellent opportunity for retail sales at nursery. Modern home and building. On paved road and one mile from new four-lane U. S. Highway 127. Only two miles from new consolidated school. Price: \$50,000.

VERNON SHAHAN, Real Estate
410 First St. Jackson, Mich.
Phone: State 4-8596

FOR SALE

Long-established subtropical nursery located on Pacific coast Highway 101, 20 miles north of San Diego, Calif. Very tropical climate, without the humidity of most tropical areas. No smog. A fast-growing area, close to large engineering experimental laboratories with huge payroll. Wonderful opportunity for a young or middle-aged man with horticultural and business knowledge. Plenty of landscape work. Potential is unlimited. Owner retiring. Write: OWNER, P. O. Box 841, Vista, Calif.

FOR SALE

Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.

SEABOARD GENERAL SUPPLY CO.
Elizabeth 4-9041 Waverly 6-0404
1080 Magnolia Ave. Elizabeth, N. J.

FOR SALE

Evergreen nursery located $\frac{1}{2}$ mile north of Salisbury, Pa., on R. D. 219. 8 acres, house, garage and shed. 5 acres planted. 25 years in business. Good business for 200-mile radius. Old age reason for sale.

ELKLICK NURSERY
Salisbury, Pa.

FOR SALE**LANDSCAPE NURSERY**

Excellent business opportunity. Good location, good merchandise, good reputation. Write to P. O. Box 65, Daytona Beach, Fla.

BUSINESS OPPORTUNITY

Capital to Invest in progressive nursery. Active partnership desired, with option to purchase controlling interest. Reply to Box 571, care of American Nurseryman.

get **EXTRA PROFITS** every time you sell a plant!

IT'S EASY WITH SMART MODERN PLANTERS BY **PATIO WOOD**

You not only make a higher profit—you protect your reputation when you sell the quality line—PATIO WOOD planters and accessories—built to last the lifetime of the plant—handsome enough to bring the customer back for more. Order direct for high profits on a line that can't be compared for quality or competitive pricing!

Send today for new 1959 catalog.



PACIFICA

Stunning new planter in the oriental mood; redwood, gray or black.

WALL POCKETS • SQUARE TUBS • HANGING BASKETS • OCTAGONAL TUBS • GARDENETTE PLANTER • PLANT WALKERS • COPPER PANS • PLANT ROLLERS • SNAP-ON CASTERS

PATIO WOOD PRODUCTS

835 COMMERCIAL ST. • SAN GABRIEL, CALIF. • ATLANTIC 7-9374

HAND TRUCKS

Especially built for handling B&B nursery material. Are built in three sizes, with capacity up to 1500 lbs.

Illustrated is our small model truck. One man can easily handle 600-lb. ball.

Write for folder giving details and prices.



THE GARDEN SHOP, Inc.

6315 West 75th St.

Overland Park, Kansas

Phone Nlagara 2-4838 (Kansas City, Mo.)

BURLAST

POSITIVE PROTECTION

Burlap treated with BURLAST (dry powder mixed with water) resists rot and decay up to six months! Write for details.

HILL'S NURSERY

Burlast Division
Box 43, Victoria, Tex.



ULLMAN CLEAT

Strong, reliable, protects flowers from damage in transit, satisfies customers and insures better prices. The Ullman cleat grips sides of box, holds stems to bottom. Send for prices.

THE ULLMAN CO.
Northampton, Mass.

near the Willamette river. Seth Le-welling was an expert nurseryman from Iowa who, with his brother, brought some 700 fruit trees across the plains in 1847 to establish the first orchard in the state. Apples from the first crop of these trees brought \$1 each at Portland in 1851.

Bill No. 554 has been presented in the Oregon senate. If it is passed, this bill will provide \$30,000 for research in regard to starling control. The pestiferous birds have been causing heavy damage to some holly orchards in the state each winter.

In the mails recently was the interesting publication, Growing Pains, mailed twice a year by Cooper's Gardens, Canyonville, to customers and friends. In addition to plant news, the paper contains many items of general interest.

On March 5 and 6 the Oregon Journal held its 10th annual spring fair. A number of nurserymen joined other professional and amateur growers in the interesting show. Attractive displays and numerous door prizes helped to draw large crowds each day.

Paul Goodmonson, Corvallis, Christmas tree grower, has developed a new type of hydraulic tree planter, which he is using to plant some 300,000 tree seedlings this year on his Kings Valley property. His machine is designed to avoid sub-surface breakup of soil, and he has added gathering devices to close the furrow in the ground after the tree is inserted. Packing wheels have variable weights to tamp earth back into the furrows with just the right amount of force. A buzzer, sounding at regular intervals, determines the spacing of the trees for the workers setting the seedlings. The buzzer interval is adjustable to obtain any spacing desired.

The featured display of the "International Garden of Tomorrow" at the Oregon Centennial Exposition this year will be made up of roses developed by two Oregon nurserymen, Herman L. Greene, rose grower, Portland, and Gordon Von Abrams, hybridizer for Peterson & Dering, Scappoose. The announcement was made by Edward L. Boatwright, manager of the Centennial garden. Mr. Greene's rose is a bright red climber named Centennial Sweetheart. The rose developed by Gordon Von Abrams is called Oregon Centennial.

Mr. Von Abrams was also the subject of a recent article in the Oregonian Home and Garden magazine, which described his hybridizing research at Peterson & Dering and his research and experiments at the

Screen Type PICKET FENCE

... ADDS PRIVACY TO YOUR LANDSCAPING

Most homes need special screening against unsightly views, around play areas, swimming pools or for containing small animals. Form nice backgrounds for plantings. Dowel construction—easy to assemble. Stringers, posts and half-round palings all peeled, white cedar. Shipped K. D. or in 8 ft. assembled panels. Write for catalog giving heights, etc.



Also Catalog shows Old English Post and Rail Fences — 2 to 5 rail — all types. Have installations throughout U.S.A.

Gates, Lanterns, Rustic Tables and Settees. Shipped from Toledo or our W. Va. Yards.

WOOD PRODUCTS CO., Toledo, Ohio

California Institute of Technology, Pasadena, where he spends three months each summer. His Cal Tech experiments are concerned with the biochemistry of rose pigments.

Robert M. Snodgrass, Esch Nursery and Seven Dees Nursery, Portland, president of the O. A. N., was the speaker for the Eastmoreland Garden Club on February 18. His topic was rhododendrons and related shrubs.

C. H. P.

OREGON BOARD MEETING

The board of directors of the Oregon Association of Nurserymen met at the home of Mr. and Mrs. Wayne Weeks, Weeks Berry Nursery, Salem, the evening of March 9. The meeting was led by President Robert Snodgrass, Esch Nursery and Seven Dees Nursery, Portland. During the busy session, Treasurer Paul Van Allen, Portland Wholesale Nursery Co., Portland, reported the finances of the association to be in good order. He also reported that another \$500 was invested in United States government bonds.

The executive secretary, Charles Potter, reported that the association incorporation procedures were nearing completion. Sam Rich, Rich & Sons Nursery, Hillsboro, chairman

F.T.E.
Fritted Trace Elements

SAFER! SURER!
Feeds plants
all season

Provides essential iron, boron, manganese, zinc, copper and molybdenum in new slow-soluble (fritted) form. Won't leach away. Nontoxic when used as directed. More than 2 million pounds used last year in premium fertilizers. Try it and prove the difference for yourself! Send \$2.50 for 5-lb. bag (or \$3.95 for 10 lbs.)

FERRO CORPORATION, 4171 East 56 St., Cleveland 5, Ohio

"MISTER 100"

Patent Applied For

MIST PROPAGATION NOZZLE—finest ever developed—wide coverage—flat plane of mist. Spaced 3 ft. apart—drilled and tapped holes— $\frac{1}{4}$ -in., 1-in. or larger pipe. Sample postpaid \$1.00. Satisfaction guaranteed. Send for your sample today.

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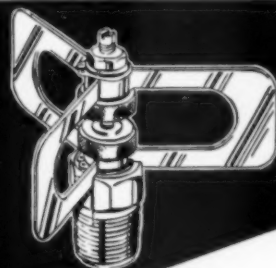
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Various Sizes

Write for prices and samples.

STERLING BAG & BURLAP CORP.

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Fog-mist
NOZZLE

for Propagation and Humidity Control

LONGER LIFE

PRECISE PERFORMANCE

BEST NOZZLE ANYWHERE

- Stainless Steel Orifice Insert
- Stainless Steel Target Screw
- Monel Metal Cylindrical Screen
- Phosphor Bronze Alignment Brackets

Nozzle Orifice At 20-lb. pressure
No. Size Diameter G.P.M.
550-A 0.28 in. 5 ft. .1

\$2.95 each. One dozen, \$23.60 each. Postpaid with check or money order. Guaranteed. 3% tax in Florida.

SPRAYERS & NOZZLES

2575 28th Ave., No. ST. PETERSBURG 4, FLA.

NEW! LAWN MARVEL BRAND Concentrated Liquid Formula EVERGREEN FOOD



for foliar and root feeding

Lawn Marvel brand liquid formula Evergreen Food is the only liquid food ever developed specifically to feed all varieties of evergreen trees. This unique 28-18-8 formula will produce vigorous, sturdy growth and strong root development. MORE—it will restore sickly, scrawny trees to health in just one season.

Recommend Lawn Marvel's liquid formula to reduce shock and get new plantings started right. A natural tie-in sale.

\$18.00 per case of 12 2-lb. cans.

Suggested retail price, \$2.25 each.

Order now—prompt shipment assured!



WRITE FOR BULK PRICES

If your needs call for larger quantities of Lawn Marvel liquid formula Evergreen Food for general nursery use, write us for special prices of bulk supplies. Please give us your requirements and the quantity on which you wish a quotation.

PLANT MARVEL LABORATORIES

622 W. 119th St., Dept. AN-459

Chicago 28, Ill.

HANDY PEONY SUPPORT



Two Models . . .

531E—31 ins. high
One 14-in. loop

533E—33 ins. high
Two 14-in. loops

Green Enamel Finish

Send for folder today.

LANSING SPECIALTIES MFG. CO.

Dept. A759

918 Clark Rd., Lansing 17, Mich.

NURSERY TAGS

"Weather Resistant"

Size 1/2x8 Ins.	
Prices per 1000—Tag Stock	
1000 to 4000.....	\$1.35
5000 to 9000.....	1.10
10,000	1.00
20,000.....	\$0.90
50,000.....	.75
100,000.....	.65

- Made of Water-resistant Paper Stock
- 8 Colors Available
- 9 Sizes and Styles
- Sheets of Ten for Typewriting

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PREMIER SOUTHERN TICKET CO., INC.

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CINCINNATI 7, O.

Dutch and Domestic

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IMPORTERS—MANUFACTURERS

Distributors of Bird Pots
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For All Nursery Requirements

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SINCE 1840

401 N. Ogden Avenue, Chicago 22, Ill.

F.T.E.
(Fritted Trace Elements)

SAFER! SURER!
Nontoxic
Slow-soluble

Provides essential iron, boron, manganese, zinc, copper and molybdenum in new slow-soluble form. Won't leach away. Nontoxic when used as directed. More than 2 million pounds used last year in premium fertilizers. Try it and prove the difference for yourself! Send \$2.50 for 5-pound bag (or \$3.95 for 10 pounds), parcel-post prepaid.

FERRO CORPORATION, 4171 East 56 St., Cleveland 5, Ohio

MORE PROFITS with Cellusuede FLOCK

- Dependable Quality
- Easy to Apply
- White or Colors

Write for
Free
Instruction
Bulletin

CELLUSUEDE PRODUCTS, INC.
500 N. MADISON ST., ROCKFORD, ILL.

of the legislative committee, reported the committee's efforts in regard to house bill 71 and the careful scrutiny of the various bills which might adversely affect the nursery trade in the state.

Also announced were the efforts of the transportation committee under Chairman Robert Mullison, A. McGill & Sons Nursery, Fairview, who has been conducting a lengthy fight to obtain a railroad acceptance of a carload limit rate for nursery stock shipments that takes into account the fact that nursery stock filling a car may not come up to the weight required by present regulations for a favorable rate. Western railroads have already accepted the idea, and eastern and southern railroads are soon to be contacted by Mr. Mullison.

Further legislative activity of the association was evidenced by the announcement that a number of association members planned to attend a hearing before the Oregon legislature subcommittee on education to encourage favorable action in regard to providing more agricultural research funds in the state. Paul Van Allen reported on activities of Oregon nurserymen in regard to nematode control on shipments of nursery stock into California and the action planned by nurserymen within the state of Oregon.

The board decided to hold the 1960 convention at Eugene again. Tentative dates are January 26 and 27, at the Eugene hotel. C. H. P.

OREGON CHAPTERS ELECT

The first dinner meeting of the Emerald Empire chapter, Oregon Association of Nurserymen, was held at Eugene on February 26. Elected president of the chapter was Vern Cornelli, Westside Lawn & Landscaping Co., Eugene. Robert Van Zonneveld, Van Dyke Gardens, Eugene, was elected vice-president; William Raper, Woodruff Nursery, Eugene, was elected representative to the state board, and Edward Cross, Cross Landscape Service, Eugene, became secretary-treasurer. Elected to 2-year terms as chapter directors were Bruce Brechtbill, Brechtbill's Nursery, Eugene, and Richard Miller, Edgewood Gardens, Eugene. Raper and Reed Vollstedt, Reed's Garden Centers, Eugene, are holdover directors. The program of the evening consisted of the showing of colored slides of rhododendrons, azaleas, camellias, delphiniums and fuchsias.

President Myron Lehne, Cascade chapter, of M. Lehne Nursery, Roseburg, led the recent meeting of the

DETORF GARDEN PEAT MOSS



is



PRESSURE PACKED



for BONUS BULK

IN WEST GERMAN BOGS, Nature "put the squeeze on" genuine Sphagnum Moss for centuries. Detorf Bricks are tougher, denser, more resilient and better preserved than peat from any other deposits in the world.

DETORF'S MODERN PLANTS actually out-do Nature. Forty-eight Bricks—open-air-dried, shredded and screened—are packed under high compression into each sealed, dust-free, moisture-proof 6 cu. ft. bag.

TEN FULL BUSHELS FLUFF out when the Detorf 6 cu. ft. bag or bale is opened. Detorf goes farther—lasts longer because its double volume absorbs 15 to 30 times its weight in water—breaks down slowly in use.

BONUS PROFITS

for you are assured by Detorf's liberal margins and customer demand.
Write, Wire or phone for prompt or later shipment.

I. H. NESTER & CO.
111 S. Front St., Philadelphia 6, Pa.
GARDEN SUPPLY SALES CORP.
2120 Lake Ave., Rahway, N. J.
J-M TRADING CORP.
323 S. Franklin St., Chicago, Ill.

Cascade chapter of the O. A. N., which was held at Cooper's Gardens, Canyonville. Mr. and Mrs. A. M. Cooper were hosts to the group, serving dinner before the business meeting. Elected as president for the coming year was Mr. Cooper, and Elwood Stanfield, S. & H. Landscape Nursery, Central Point, was elected vice-president. J. Vernon Marshall, Marshall Florist & Nursery, Roseburg, was re-elected secretary-treasurer of the chapter and representative to the state board. Alan Baker, Bakers Landscape Nursery, Klamath Falls, and Myron Lehne were elected chapter directors for 2-year terms, and W. R. Magness, Roseburg nurseryman, was elected for a 1-year term. The next meeting of the chapter is slated for June at the M. Lehne Nursery in Garden valley, near Roseburg, as was announced when the meeting was adjourned.

The Columbia River chapter of the O. A. N. met at Gresham recently, with President J. Frank Schmidt, J. Frank Schmidt & Sons, Troutdale, leading the meeting. Hans Nelson, Nelson Rose & Holly Farm, Troutdale, was elected president, and Bill Moller, Moller's Nursery, Fairview, was elected vice-president. Arthur Suhr, Mount Hood Nursery, Gresham, became secre-

Ohio Nurserymen — have you tried

CHLOROMONE

The internationally famous liquid plant hormone?

In our nursery, the propagation of plants with the use of Chloromone has been outstandingly successful. We find that cuttings, treated with Chloromone, produce an abundance of roots in an extremely short period of time.

Chloromone is recommended for rooting of cuttings, air layering, grafting, transplanting, seed and bulb activating, fruit setting and anti-fruit drop and root system restoring of dying plants.

We have been assigned exclusive distribution rights in the state of Ohio for Chloromone. Orders shipped promptly upon receipt.

Postpaid prices for nurserymen and dealers:

4-oz. jar	\$ 3.00
Split case (12 jars)	23.40
Regular case (24 jars)	43.20
Gallon tin	45.00

CRUMRINE NURSERY

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tary-treasurer. Elected to 2-year terms as directors were Robert Mul-lison, A. McGill & Son, Fairview, and J. Frank Schmidt, Jr., Troutdale. Melvin Surface, Surface Nursery, Gresham, and Erwin Fowler, Milton Nursery Co., Milton-Free-water, have 1-year terms to serve as directors. J. Frank Schmidt, Jr., and Hans Nelson were re-elected as representatives to the state board. Speaker at the meeting was Dr. R. M. Bullock, superintendent, Northern Willamette valley experiment station. He talked on chemical weed control.

The Willamette chapter met at Salem at a dinner meeting. Wayne Weeks, Weeks Berry Nursery, Salem, conducted the meeting. Officers elected were Verl L. Holden, H. L. Percy Nursery Co., Salem, president and state board representative; P. H. Brydon, Brydon's Nursery & Seed Store, Salem, vice-president, and Martha Jane Percy, H. L. Percy Nursery Co., secretary-treasurer (re-elected). Mrs. C. R. Winger, Corvallis, and Arthur Plant, A. Plant Greenhouses, Salem, were elected as directors for 2-year terms.

Ivan Arneson, Arneson's Nursery, Canby, president of the Clackamas chapter, led the meeting of that chapter recently held at Oregon City. Harold Miller, Miller Landscape Service, Milwaukie, reported on the plants and labor that will be needed from nurserymen for the "International Garden of Tomorrow" at the Oregon Centennial Exposition. Dave Brown, Wichita Nursery, Milwaukie, announced the dates of the annual Multnomah Parade of Gardens (April 15-19) and urged nurserymen to cooperate in an effort to make it a great success. Charles Potter, executive secretary of the O. A. N., Milwaukie, told the group about the incorporation procedures and also said that the association is now protected with liability insurance. Robert Smith, assistant Clackamas county agent, reported that Dr. Ticknor is now at the Northern Willamette experiment station and he asked that nurserymen consider providing an advisory group to work with the new station. Weed control experiments are to be among the first conducted at the station, said Mr. Smith.

Ray Burden, Hazel Dell Gardens, Canby, was elected chapter president for the coming year. Harold Miller became vice-president and Howard Smith, Four Mile Farm & Nursery, Canby, was elected secretary-treasurer. Ralph Elser, Elser's Nursery, Milwaukie, and Dave Brown were elected directors for 2-year terms.

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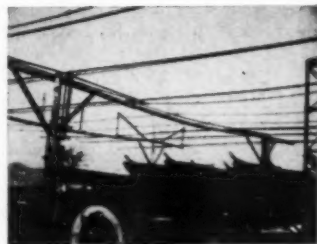
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and Lowell Hall, Hall's Half Acre, Milwaukie, was elected as a director to fill an unexpired term of one year. Ivan Arneson became the state representative for the chapter. Pete Nuffer, Mountain View Nurseries, Inc., Troutdale, provided some interesting colored slides and commentary on container growing.

C. H. P.

O. A. N. CHAPTER MEETS

Nearly 40 members and guests of the Sunset chapter of the Oregon Association of Nurserymen attended a dinner meeting of the chapter at the Forest Hills Country Club, Cornelius, on the evening of February 16. Roy Smith, president of the chapter, Valley View Nursery, Beaverton, led the meeting. Jim Doty, secretary-treasurer of the chapter, Doty & Doerner Nursery, Portland, made several reports during the evening.

Charles Potter, O. A. N. executive secretary, was asked to make a few remarks concerning liability insurance. Later in the evening, Mr. Potter presented the chapter charter and officers' plaque to newly elected Vice-president Charles Drew, Drew's Nursery, Beaverton, who reported on the recent Oregon State College short course at Corvallis. He urged nurserymen not to miss these short courses in the future.

Elected as chapter officers for the coming year, in addition to Mr. Drew, were Patrick Dering, Peterson & Dering, Scappoose, president, and William Curtis, Wil-Chris Acres, Sherwood, secretary-treasurer. Directors elected were Roy Smith and Charles Walters, Charles E. Walters Wholesale Nursery, for 2-year terms, and Al Teufel, holly grower, Portland, and Klaas Ellerbrook, West Oregon Nursery, Portland, for terms of one year. Elected to serve on the O. A. N. state board for the coming year were James Doty and Phineas McCoury, McCoury's Garden Center & Nursery, Astoria.

Trade Problems Discussed

In charge of the program was William Curtis. Speaker for the evening was Ray Gill, Gill Bros. Seed Co. Speaking of the various problems confronting horticulturists, Mr. Gill said that nurserymen, seedsmen and florists have a common ground on which to stand. He paid tribute to the part that garden clubs and garden magazines and newspapers have had in developing the garden industry of the country.

He remarked that increased costs of catalog production plus the in-

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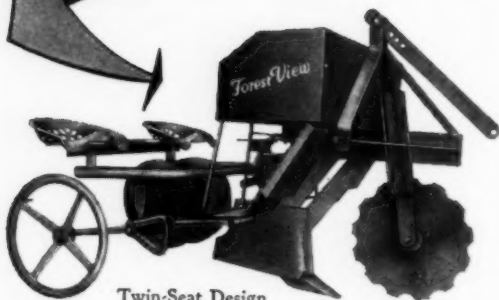
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crease in mailing costs have priced catalogs beyond the reach of many nurserymen. Fewer and fewer catalogs are being printed today, although his firm still puts out 90,000 catalogs twice each year. Regarding legislative problems, he warned the nurserymen that close attention must be given the legislative proposals which would further increase postage and parcel post rates. In this vein he also warned nurserymen to be prepared to fight any and all proposals which would impose a personal property tax on growing in the field.

Mr. Gill referred to his own experiences in developing new varieties of squash and marigolds. Important things which go into making a new variety popular are appearance, keeping quality and sales appeal, he said. It ordinarily takes long, patient work to develop a new plant variety. Nevertheless some new plants are brought onto the market more or less by accident.

He advised nurserymen to watch constantly for new plant materials. Mr. Gill mentioned that he is experimenting with a new late-fruited peach. As a mother block for basic tree stock, he recommended the establishment of an orchard made up of old varieties of the various fruit trees, from which nurserymen can obtain scion wood.

Mr. Gill referred briefly to the importance of ample potash in the development of good flowers. It improves flower color and general quality and provides better keeping qualities and resistance to adverse conditions, he said. He closed with some warning notes concerning DDT and the effect of the material on human beings.

The evening closed with a showing of colored slides taken by Al Teufel on a hunting trip to Alaska, during which he spent 22 days on horseback in the Yukon.

C. H. P.

GARDENERS' ASSOCIATION

Installation of officers and reports on insurance and credit union activities made up the annual meeting of the Mid-Peninsula Gardeners' Association February 20. The association is a group of garden maintenance operators who work in the Redwood City - Menlo Park - Atherton - Palo Alto-Los Altos area of the San Francisco peninsula and, along with similar groups of gardeners through the state, is a unit of the California Gardeners' Association.

The several smaller units hold monthly meetings at which representatives of garden material manufacturers give talks on the use of

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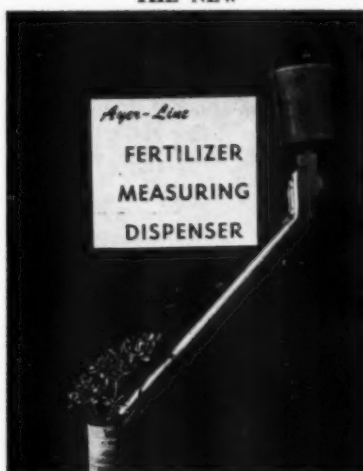
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care of their products. Members of the agricultural extension services of the University of California and other authorities also address the association on improved horticultural methods and current research.

Official delegates from each local group attend the meetings of the other groups, and every member is urged regularly to enroll in the adult education classes offered at the junior colleges and high schools near them. These activities keep the men up to date in their profession and keep the working standards and conditions throughout the state on a high level.

Presiding at the February Mid-Peninsula meeting was outgoing president Frank Murai, and master of ceremonies for the evening was George Kawaye, program chairman for 1958. Installing officer was Burton Edwards, Davies Tree Service, Menlo Park, the group's adviser. The new officers are George Tanaka, Palo Alto, president; Roy Hirotsu, Menlo Park, vice-president; Eugene Omi, Redwood City, recording secretary; George Kawaye, Redwood City, corresponding secretary, and Richard Yoshida, Palo Alto, treasurer.

The California Physicians Service representative reported on the group insurance policy held by the associa-

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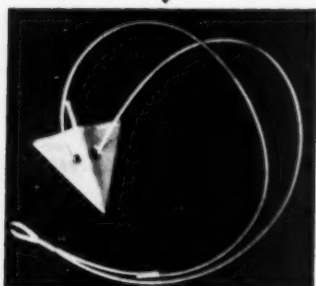
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tion and explained additional benefits that are available. A report was also given on the credit union recently established by the group. A representative from the Credit Unions gave some interesting information about the organization on a national scale and advised the membership here how to benefit further from it. W. B. B.

SHADE TREE MEETING

[Continued from page 17]

indicate the use of medium or small trees, and limited space on the sides may dictate the use of pyramidal or columnar forms in preference to varieties with spreading branches. Species that grow large, he suggested, have a definite place in the planting of parks, wide streets and boulevards and on public and private grounds where there is ample room for full development. Whether the tree selected be large, medium or small is not so important as the fact that logic and reason have been used in the selection of a tree of proper ultimate size and form to fit the space provided, he emphasized.

When large numbers of a single tree species are planted in a community, serious insect and disease attacks may result, he said, and as an example cited the spread of the Dutch elm disease and the destruction it has caused. To reduce the possibility of disastrous tree losses he suggested that one tree species or variety should not constitute more than 5 to 10 per cent of the total tree population of a given community.

With respect to planting around the home, he said about 80 per cent of the new suburban homes in the United States reportedly were of the single-story, or ranch type. In the landscaping of such homes he suggested the use of small to medium-sized shade trees and the planting of flowering ornamentals such as crab apples, hawthorns, magnolias, dogwoods, redbud, birch, golden-rain tree, the cherry bark maple and the striped bark maple. Larger-growing species, he said, often are required in plantings surrounding 2-story or larger houses.

"When we can select a tree meeting the requirements of ultimate size, shape and other conditions and also combine in that selection a tree that may be beautiful in flower, leaf, fruit, fall foliage, unusual bark or a combination of these virtues," Mr. Van Camp said, "we have the satisfaction of painting a beautiful, as well as useful, picture."

"Japanese Beetle and Control Methods" was next discussed by

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L. B. Matzenbacher, of the Illinois department of agriculture, division of plant industry, Glen Ellyn. A brief history of the beetle in this country was given, control methods were outlined and specific areas of infestation in the midwest were mentioned.

The Japanese beetle, a native of the main islands of Japan, was found for the first time in the United States in 1916, near Riverton, N. J., Mr. Matzenbacher said. Since that time it has spread north, south and west. A small infestation was found more than 20 years ago in the Chicago area, he said, and control measures promptly applied resulted in complete eradication of the pest in this instance. Scattered local infestations have been found and brought under control at various times since in the Chicago region. Recently, a large beetle-infested area was found near East St. Louis, Ill., he said, and in the summer of 1958, beetles were found in scattered locations over a large tract in Cook county, Illinois, south of the city of Chicago. Control measures are scheduled to be applied to these infested areas this spring, Mr. Matzenbacher said, in which the United States Department of Agriculture, the Illinois state department of agriculture, division of plant industry and, in the case of the Cook county infestation, the forest preserve district will cooperate in trying to eradicate the pest.

Various Control Materials Used

Various materials have been used in controlling infestations of the Japanese beetle, including lead arsenate in early control measures and, more recently, such chemicals as DDT, chlordane, methoxychlor, dieldrin, toxaphene and heptachlor. These materials may be applied, Mr. Matzenbacher said, as dusts, liquid sprays or in granular form over the infested areas to destroy the larvae, or grubs, in the soil. Prior to the development of the newer, highly potent insecticides control measures were costly; now, control can be accomplished over large areas through aerial application for as little as \$3 to \$5 per acre. The so-called milky disease, which infects and destroys the Japanese beetle, provides effective control; however, Mr. Matzenbacher said, preparation of spore suspensions of this disease in quantities adequate to treat large areas was a costly procedure. In commenting on the use of Japanese beetle traps, he said the traps were used to detect the presence and extent of a beetle infestation, rather than as a means of control.

The adult Japanese beetle was de-

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scribed as being about one-half inch long; shiny, metallic green in color, with coppery-brown wings and six small tufts of white hair along each side of the body, just under the edges of the wings. The larvae are soil-inhabiting white grubs, about one inch long when fully grown. The adults feed on the foliage, flowers and fruit of a wide variety of plants, Mr. Matzenbacher said, including blackberry, raspberry, strawberry, grape, apple, cherry, peach, plum, rose, elm, linden and willow. In the Chicago area the adult beetles may be expected to appear the latter part of June, he said, and added that the adults live only about 30 to 40 days after emergence from the soil. The grubs feed on the roots of grasses and other plants and often cause severe damage to turf areas. Losses caused by Japanese beetles feeding on agricultural and ornamental plants, he said, exceed \$10 million annually in the United States.

The problem of tree stump removal was ably treated by Charles S. Walters, of the department of forestry, University of Illinois, Urbana, in his address, "Experiences in Stump Removal." Stating that he and others in the forestry department began trying 13 years ago to find a simple, practical and economical method of removing or destroying stumps, Professor Walters indicated the need for developing a workable method became increasingly urgent as more and more elms died as a result of phloem necrosis and the Dutch elm disease.

Various materials that might aid in burning stumps were tried, including potassium nitrate, chlorates, permanganates, dichromates, a perchlorate and a military incendiary material known as "goop," but none was successful. Several commercial preparations also were tried with similar results.

Then in 1953 a mixture of copper sulphate, sodium dichromate and chromic acid was utilized in an experiment and the results stimulated further work. From this work came the product known as Stumpfyre, on which the University of Illinois Foundation has applied for a patent and which is described in the University of Illinois circular No. 795, "Burning Tree Stumps with Stumpfyre." He explained that this material, used according to directions in the circular, promotes a glowing combustion of the wood and reduces the stump considerably more effectively than does ordinary burning without the assistance of the chemical.

One of the highlights of the program was a talk given by Mrs.

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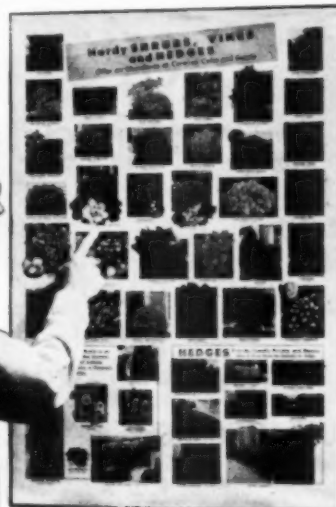
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A. Campbell Perks, Rockford, Ill., on "Homeowners' Needs for Tree Care." Remarking that, like many other homeowners, her interest in trees was mild until a few years ago; her attitude changed, however, when she saw the effects of Dutch elm disease in her community; then she became aware of the value of shade trees and realized that they needed professional, competent care.

As a result of losing some 30 elms on her own property and having some discouraging experiences with self-styled but uninformed tree experts, she said she made contacts with authoritative sources and learned all the known facts, discouraging and otherwise, concerning the control of Dutch elm disease. Through these contacts she also learned a great deal concerning the general care and maintenance of other trees and shrubs. She said she believed her experiences paralleled those of many other homeowners in the country.

A number of factors tend to prevent or discourage homeowners from using professional tree services regularly, Mrs. Perks asserted. One of these factors is a homeowner's own ignorance of the normal requirements of shade trees; he more or less takes trees for granted until an emer-

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gency such as a windstorm or disastrous disease compels attention. Cost of tree care is a second discouraging factor, Mrs. Perks said, but added that this could be overcome to a large degree if the arborist would outline the facts of tree care simply and honestly and provide the homeowner with a long-range plan for shade tree management so that such services could be included in his budget.

Variation in Standards Misleading

The third factor is the wide variation of standards in the practice of arboriculture, Mrs. Perks said, and added, "We must trust the man who performs our tree services. The results of his care, good or bad, often do not become evident for several years, and then it is too late to judge whether or not the arborist is competent and knows his business." Adding to the homeowner's confusion, too, are the many titles applied to men who do commercial tree work—she enumerated these as tree cutter, tree surgeon, arborist, tree expert, wood chopper and others. "Only through painful trial and error have we learned the limits of each area of service," she emphasized. She suggested that in states where arborists' licensing laws exist the fact should be publicized and the license should indicate the degree of skill possessed by the license holder.

A fourth factor that leads to confusion and lack of trust on the part of the homeowner is the frequent apparent disagreement between arborists in diagnoses of tree troubles. Minor disagreement is understandable, she commented, between scientific authorities and practitioners but suggested that an organized effort should be made to coordinate the thinking and training of professional arborists with special regard for technical problems that might arise with the homeowners' needs.

More Knowledge Needed

To gain greater trust and confidence among homeowners, Mrs. Perks suggested, arborists should strive constantly to better their own knowledge and that of their clients concerning the needs of trees; furthermore, they should encourage all forms of publicity on tree care matters and attempt to establish more nearly uniform standards of practice in arboriculture. She suggested taking advantage of the widespread effects of the Dutch elm disease as a pivot point in a campaign that will promote greater appreciation and interest in the care of all trees and closed with this advice: "Give homeowners straightforward advice, uni-

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formity of standards and a clear-cut understanding of licensing programs. In this way homeowners will come to view the entire profession of arboriculture with respect and with increasing desire for its knowledge, skill and experience."

History of N. S. T. C. Told

In his discussion of "Membership Privileges and Responsibilities," Dr. L. C. Chadwick, Ohio State University, Columbus, O., secretary-treasurer of the N. S. T. C., outlined the history of the organization and said that at present there are 1,428 members. The N. S. T. C. is unique, he said, because its membership includes representation of practically all phases of horticultural activities and because of the fact that all members are on an equal basis in the affairs of the organization since there is only one class of membership.

Dr. Chadwick outlined the objectives of the organization as being: (1) To promote and improve the practices of arboriculture; (2) to stimulate greater public interest in the planting and preservation of shade trees; (3) to promote public education and develop greater appreciation of the value of arboricultural practices; (4) to recommend and uphold a code of ethical standards to establish and maintain a high level of business practice by those in the industry; (5) to initiate scientific investigation in matters pertaining to shade trees, and (6) to hold annual meetings for the purpose of discussion and exchange of ideas on tree preservation practices and to afford manufacturers an opportunity to display and demonstrate equipment and supplies. Constant growth and success of the N. S. T. C. have resulted because the group has held steadfast to these objectives, he said.

Necessity of Trade Association

Trade or professional associations, Dr. Chadwick said, are common to all industries and constitute an inherent part of the American democratic system. Membership is beneficial in that the organization promotes cooperation and trust; it helps establish policies that favorably affect the industry; it provides unity and strength to achieve desired goals, and it enables members to keep abreast of new developments in the industry.

In reviewing notable past accomplishments of the N. S. T. C., he mentioned booklets that the organization has sponsored and that are presently available; these publications include "Prevention of Fruit Set on Shade and Ornamental



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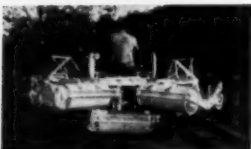
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Trees," "Standard City Ordinances," "Arboriculture Code," "Shade Tree Evaluation" and "Transplanting of Trees and Shrubs in the Northeastern and North Central United States." Among the responsibilities of members in the conference, he said, are attendance at the business sessions to help guide the organization in its activities and promotion of the teaching of arboriculture and horticulture in colleges and universities.

Considered in its broadest sense, Dr. Chadwick said, arboriculture includes plant selection, plant use or landscaping and planting and maintenance. Trees and plants are necessary for the survival of any community.

"The Smaller European Elm Bark Beetle—Its Spread and Control" was the subject of a talk given by Hugh E. Thompson, of the department of entomology, Kansas State College, Manhattan. This beetle, which serves as the principal carrier of the Dutch elm disease, was found for the first time in the United States near Boston, Mass., in 1909. Dr. Thompson said, but it was not until about 1930 that much attempt was made to keep accurate records of its spread. By 1938, he said, the beetle was known to exist in New York, Massachusetts, New Jersey, Connecticut, Pennsylvania and west to the Ohio-Indiana line. Since that time it has been found west of the Mississippi river and even farther west in Nevada, Utah and California. He pointed out that often the beetle carrier of the Dutch elm disease may be present in an area without the disease's itself being there.

Beetles Spread Many Ways

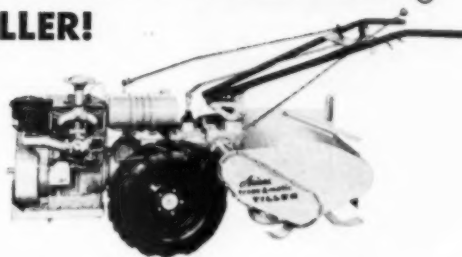
The beetles spread by many means, Dr. Thompson said, including being carried by wind currents; vehicles such as automobiles, trucks and others, and through their own ability to fly considerable distances. It has been demonstrated, he stated, that beetles in search of suitable elm wood in which to deposit eggs may fly at least four miles. He pointed out that elm wood cut and piled for fuel purposes or left unburned in city dumps often becomes infected with the Dutch elm disease fungus before any standing elm trees in the area begin to exhibit symptoms of the disease.

In connection with the need for controlling the bark beetles, Dr. Thompson remarked that the beetle population could build up to a point where their feeding and egg-laying activities were highly destructive to elm trees, especially those weakened by drought or other causes, even

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when the Dutch elm disease was not present.

He then reviewed the results obtained in a research program on the application of insecticides designed to control the beetles. One of the points arborists should remember in spraying, he said, is that thorough spray coverage is necessary to control the beetles. In his work he found that the lower branches of a tree usually received more spray material and that the spray on the lower branches remained toxic to the beetles for a longer period of time than on the upper branches. To control the beetles and to prevent excessive spread of the Dutch elm disease, Dr. Thompson advised a program consisting of both sanitation and spraying.

Dutch Elm Disease Symposium

One of the features on the program of the meeting was a symposium on Dutch elm disease. Discussion leaders were George E. Hafstad, plant pathologist of the Wisconsin state department of agriculture, division of plant industry, Madison; Donald L. Schuder, of the department of entomology, Purdue University, Lafayette, Ind.; James A. Hoyt, Hoyt Tree Service, Northbrook, Ill.; Marvin E. DeSmidt, De



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Smidt Tree Service, Racine, Wis.; Max W. Hillman, Hillman Tree Surgery, Galesburg, Ill.; Fred Wagner, Wagner Tree Surgery Co., McPherson, Kan., and F. Lewis Dinsmore, Dinsmore Tree Service, St. Louis, Mo.

Stating that Dutch elm disease was found at Beloit, Wis., in 1956, Mr. Hafstad described the spread of the disease in Wisconsin and the methods used in control work. In 1958, he said, 1,832 cases of the disease were reported from 106 communities in seven counties of the state. The control organization in Wisconsin, he said, includes representatives from the University of Wisconsin, Madison; the state highway department, the League of Wisconsin Municipalities, the conservation department, the department of forestry and wildlife management, county agents and some private individuals. Good publicity has been given the situation, he said, and commented that cooperation in control efforts throughout the areas of infection has been excellent.

Control measures are similar to those practiced in other areas where the disease is present, he remarked, and through proclamation of the governor the last week of March has been designated as Dutch elm disease cleanup week. Such publicity as this, he commented, encourages the public to take the necessary steps toward control of the disease. He remarked that in Wisconsin the peak of the beetle emergence seems to occur about mid-June, with a smaller peak about mid-August.

Disease Research Work

Dr. Schuder commented on various experimental and research work conducted in control of the Dutch elm disease and stated, "At the present time there is no known cure for Dutch elm disease; we can only prevent its spread." In order to transmit the disease, he said, the beetle must penetrate the bark of the twigs to a depth of two or more millimeters. The fungus cannot be transmitted in feeding cuts that do not penetrate the cambium. He said the greatest amount of disease transmission occurs in the spring when the large conductive vessels of elm trees are closest to the twig surface, and fall inoculations by the beetle are seldom successful since at that time of year the conductive vessels of the trees are shorter and partially closed.

Continued use of DDT may pose some secondary tree problems, he said, such as a build-up in population of mites, scale and aphids. He suggested the addition of other in-

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secticides or miticides to the DDT spray to control these pests. Some experimentation to control the beetles has been made with systemic insecticides, Dr. Schuder said, including demeton, Dimefox, Thimet and Tetram, of which some show considerable promise. Insecticidal materials that appear to compare favorably with DDT in control of the beetle, he concluded, include lindane, lindane plus aroclor 5460 and dieldrin.

CANADIAN CONVENTION

[Continued from page 14]

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In summing up, he said the production of vegetable, flower and lawn grass seeds is a highly specialized business. Seedsmen are mostly responsible for the final distribution to users and they cannot know too much about this important trade. Users should also acquaint themselves with all the facts they can learn concerning the seeds that they transform into consumer goods.

Because R. W. Oliver was unable to be present at the convention, the talk on the new Canada department of agriculture as scheduled on the program was not given, and a film on the Japanese beetle was substituted.

Morning sessions concluded with a talk by Jack Hill, D. Hill Nursery Co., Dundee, Ill., on "Container-grown Nursery Stock." In this day, when the trend is to demand specific goods for specific markets at specific dates, one has the advantage of controlling many factors when he grows stock in containers. Mr. Hill has found new tin cans the most economical and satisfactory container in the long run.

With regard to the mixture in the can, he pointed out that it is almost impossible to standardize anything that contains soil and suggested a mixture of sand, peat moss and sunflower hulls. He noted also that perlite has possibilities. A base fertilizer must be added, with a nutrient balance at low level.

He went on to discuss the importance of timing in planting rooted cuttings, the use of Jiffy Pots to reduce shock, the shift from rooting bench to container, field liners, irrigation and liquid fertilizing and feeding. He said that in the past his nursery fed intermittently, but during the coming year continuous applications of liquid fertilizer will be used at a concentration of about 1/30.

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Write for descriptive literature, price and availability today on this money-saving tool.

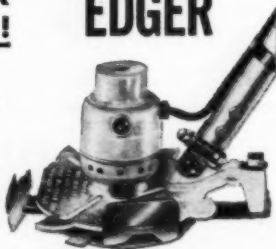
ROSEMAN TRACTOR EQUIPMENT CO.
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"OK" with GRASS TRIMMER and EDGER

**THE FIRST
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BOTH-IN-ONE TOOL!**

- **TRIMS** . . . all the grass away from fences, walks, trees, rocks.
- **EDGES** . . . cuts a neat, trim groove between walk and sod.
- **HOOK** . . . protects blade, motor — guides every blade of grass into blade's path.
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trimming and went on to discuss winterizing plants by moving them closer together and erecting a snow fence around them in blocks about 100 feet long and 20 feet wide. Snow fence paper is put over the more tender plants.

A general session in the afternoon was chaired by the 1958 president, W. B. Wellington. "Selling on Credit" was the subject of a talk by J. W. Beaton, Interprovincial Building Credits, Ltd., Toronto, Ont., who pointed out the advantages of selling nursery stock products on the installment plan through a dealer credit organization. The field of installment buying is constantly broadening and has a considerable influence in the rehabilitation, modernization and improvement of homes.

Installment Buying Benefits

In the case of the nursery industry, Mr. Beaton stated that the use of an organized, experienced finance plan could be made of greatest benefit in more than one way. It could be the means of closing a deal on a sound basis of deferred payments, which otherwise might be postponed or even lost altogether. Again, whereas a purchaser might be willing to take on a certain job of a certain size on a cash basis, he may purchase a higher quality of merchandise for the job that he wants done, if he is offered such merchandise on an installment basis. Used on a sound basis, installment buying can be made a business builder and profit maker.

Mr. Beaton pointed out the benefits of using a financial credit house to handle installment sales. By using a credit house, the dealer receives cash for the sale, the same as he does on an ordinary over-the-counter cash transaction. In addition, the credit of the purchaser is checked by the credit house. The dealer has all the advantages of offering a deferred payment plan without any of the work involved.

Gordon F. Henderson, Q.C., Gowling McTavish, Osborne & Henderson, Ottawa, Ont., in discussing "Misleading Advertising," stated that a liberal law toward advertisements and an apathetic public permit a sizable loss to purchasers from false and misleading advertising each year. He predicted that, unless industry engaged in self-discipline in advertising, closer government control would follow.

Suggests Nursery Standards

He suggested that the Canadian Association of Nurserymen adopt a voluntary code outlawing the following practices: Misdescribing one's

THE AMAZING PUSH-TRAC

The PROFESSIONAL CLASS

"MOWER • DUMP CART • BULLDOZER • SNOW AUGER"

The Push-Trac is a rugged 2-wheeled tractor made of heavy plate steel, welded into a rugged piece of light industrial equipment. Model B has a heavy-duty, 4-horsepower, cast iron block industrial engine. A marine type, reversing-clutch transmission running in oil, and spur gear differential built for in excess of 10-horsepower. One forward-neutral-reverse lever. Working speeds from 1 to 6 m.p.h.



A single pin couples any of its attachments in just 30 seconds. Dozens of landscape, materials handling and maintenance uses. Driver steers unit exactly where he wants to go, with the work in FRONT of him at all times. The unit with attachments will turn in its own length.

Attachments include 5' and 4' wide gang reel mowers, 52" rotary mower, 48" hammer whip mower, 30" reel mower, bulldozer, snow auger, 1,000 lbs. capacity dump cart—and many more to come!

Tremendous acceptance—the versatility of many machines with the economy of one!

Dealerships now available.
Drop us a line for complete,
illustrated details.



Now being manufactured and sold by

SHAWNEE

1947-P North Topeka Ave.,
TOPEKA, KANSAS

product or falsely illustrating it; using a competitor's symbols or advertising format; using genetic plant designations as one's own; shipping contrary to advertised representation; representing as nursery stock products collected in the wild state; representing a product as a new variety unless it is one; representing growth conditions such as absence of fertilizer requirements unless accurate; representing that plants were propagated by grafting or bud selection methods unless such was the case; misrepresenting the nature of the bloom to be expected, and misrepresenting by false indications of price reductions.

As a positive proposal, Mr. Henderson suggested that the association adopt a standardization mark that may only be used by members of the association who have met prescribed voluntary standards. Make each member proud to advertise under the symbol, said Mr. Henderson, and make the symbol a trademark of confidence.

Plant Patents—Pro and Con

In discussing the question "Plant Patents for Canada?", J. H. Eddie, H. M. Eddie & Sons, Ltd., Vancouver, B. C., maintained that they would protect the hybridizer, be an



SKIBBE INSECTICIDE-HERBICIDE & FERTILIZER APPLICATOR

The spreader with the controllable spread.

Modified, approved and used by the plant pest control branch of a national agency for application of granular insecticides. Used by leading universities and growers.

Write for folder.

SKIBBE MFG. CO.

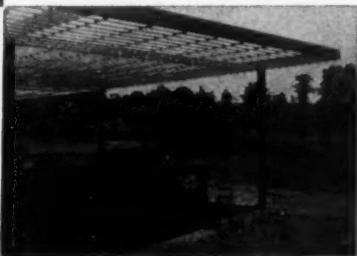
Sodus, Mich.

ALUMALATH

THE MODERN MATERIAL

Aluminum, designed for scientific sun control.

Millions of feet in use throughout the United States and the many repeat orders received for increased coverage in the past 10 years prove its value.



NURSERY

Designed for ease and low-cost erection. It is lightweight, with a high-gloss baked enamel finish, long lasting, with minimum maintenance.

Extensively used by commercial growers, nurserymen and landscape architects, for better plant protection.

Manufactured in four lath spacings, one will meet your most exacting uniform sun intensity requirements.



LATH HOUSE

Ideal shading medium for patios, carports, parking lots, commercial displays and any area requiring shade. Perfect shade, ventilation, diffused reflected light with minimum light loss and beautiful appearance are assured with ALUMALATH.

GET THE FACTS
WRITE FOR SAMPLE AND PRICES

Manufacturer

HARRY H. REYNOLDS

2561 Valencia St.
SANTA ANA, CALIF.

added incentive to the development of new varieties, prevent monopolies and benefit the nurseryman and public.

L. Hancock, Woodland Nurseries, Cooksville, Ont., regarded plant patent legislation as government protection for monopoly production and price fixing, contrary to recognized Canadian economic principle. He was of the opinion that plant patents would create a false sense of values and would deprive all nurserymen of part of their growing freedom.

John Lemon, the Conard-Pyle Co., West Grove, Pa., gave an unbiased account of how the United States plant patent act works. There was great interest in the subject and it seemed that many were uncertain as to what the plant patent law meant and what it would and would not do. The questions and answers were informative and profitable, and discussion had to be stopped at the dinner hour.

Tuesday morning was a garden center session, with "Ted" Shuttleworth, Little Tree Farm, London, Ont., presiding, and A. W. Rundle, A. W. Rundle Garden Center, Oshawa, Ont., acting as moderator. The new A. A. N. film, "Basic Technique for Home Landscaping," was shown, and members were told that the association was making it available to them.

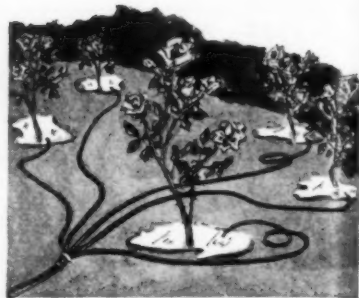
John Siebenthaler, the Siebenthaler Co., Dayton, O., gave an informative talk on "Sales Station Operation." He considers the garden center as the best outlet for the retail nurseryman, but claimed that the biggest mistake in the past had been that operators were not optimistic enough about the future.

The trend in home grounds is toward providing an attractive setting for leisure outdoor activities. He pointed out the public awareness of progressive merchandising and the advance of the merchandiser who appeals to the public with ease in shopping, effective displays, parking and a variety of merchandise.

Allied Lines Necessary

Allied lines, he stated, have become a necessity. In his opinion, a nurseryman can no longer operate by just selling plants. He must sell service and allied products. In commenting upon the allied lines, Mr. Siebenthaler suggested that nurserymen offer a variety of merchandise and that the new operator use brand names that have a reputation. The person who has been in business long enough to build up a reputation can add his own brand names.

Mr. Siebenthaler then mentioned



5 - FROM - 1 PLANT SOAKER

SOAKEZE does a good job when watering shrubs; saves much time and work. Its 5 lines of durable, green vinyl tubing (three 10 ft. and two 15 ft.) can be spread out in any direction to soak roots of 5 shrubs at one time. Has standard garden hose connection. 5-year guarantee.

A proved product, thousands now in use. Each SOAKEZE mounted on easel for easy handling and display. Retail for \$5.95.

Dealers, order direct. Send only \$21.60 for trial half dozen, postpaid.

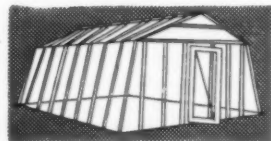
JONS MFG. CO.

445 Dantzler St.

St. Matthews, S. C.

LOW-COST GREENHOUSE

Ideal for Orchids, Pot Plants, Tomatoes, etc.



\$12500 complete
14x14x8 ft. high

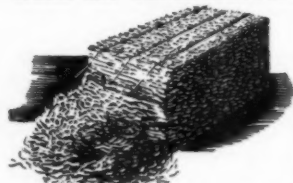
STEEL FRAME, 1x2-in. angle, 6-mil plastic cover. 2 vents, 1 door, hardware, etc. Write for details:

TAYLOR'S NURSERY

R.F.D. No. 5, Raleigh, N. C.

Wood Feathers

SCREENED BALED RED CEDAR SHAVINGS



The Perfect Nursery Packing

Manufactured by

MONARCH SHINGLE CO.

P. O. BOX 98

N. PORTLAND, ORE.

LOW DELIVERED PRICES—We Solicit Your Inquiries

how his firm uses and advertises its own brand of grass seed. They use a small red and white package for grass seed, since red is considered a better advertising color than green and since a number of small packages all bearing the firm name provide better advertising value than one big package.

In concluding his talk, he advised that the garden center should offer quality products and always try to improve production. It should give true value; make products readily available, and advertise truthfully, in good taste and consistently to the right people. He also mentioned that there were not enough sales aids available from the producers of allied items nor from the nursery wholesaler.

Jack Hill discussed the psychological aspect of merchandising nursery stock. People generally have a fundamental urge to own their own home, and associated with this idea is the possession of land and growing plants. This basic desire provides a decided market for nurserymen.

Supermarket Sales

In the course of his talk, Mr. Hill discussed sales stations and supermarkets, stating that the latter depend greatly on impulse buying. In this type of sale, novelty rather than staple plants move best. The nursery and sales station sell the more staple plants. He has found that in the case of supermarkets, success with nursery stock depends largely on the attitude of the manager. He concluded his talk with an amusing story that illustrated a number of the weak points in nursery selling. A question and answer period concluded the morning session.

In the afternoon there was a landscape session. "Ted" Shuttleworth acted again as chairman. Les Solty, Leslie L. Solty & Sons, Ltd., was moderator. The session opened with the new film, "Home Landscaping," which gave some excellent pointers on home planting.

J. Austin Floyd, lecturer, school of architecture, University of Toronto, Toronto, Ont., was introduced and gave a talk on "Construction Methods in Landscape Contracting." He asserted that all gardens should have a perceptible form, not a haphazard collections of rocks and flowers.

He maintained that the landscape architect has a broader vision of outdoor living than the nurseryman, who is interested mainly in selling plant material. The customer, said Mr. Floyd, needs not only plant material but also guidance in planning outdoor living areas. When one is

Want a money-maker? Get a Multiplex!



Here's an idea for a real sales-building display that's easy to prepare. Collect a supply of the beautiful, colorful literature you receive from growers and tack this material to the swinging wing-panels of a Multiplex Display. You'll find this a real attention-getter! It will help customers buy, for they will be able to see just how various shrubs and flowers will look around the house. Our own experience has proved that if you will make effective use of growers' literature, you will stimulate sales and boost your profits.

Steel-framed Multiplex panels are available in floor models (as illustrated) and wall-mounted and counter-top models . . . wide range of panel sizes . . . several finishes. Use the coupon to get all the facts on this sales-producing display equipment.

Easy for your customers
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Panels swing—like pages
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Steel-framed panels
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Heavy, nontipping
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Show it well and it will sell

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All Red Giant products manufactured only by skilled wood craftsmen.

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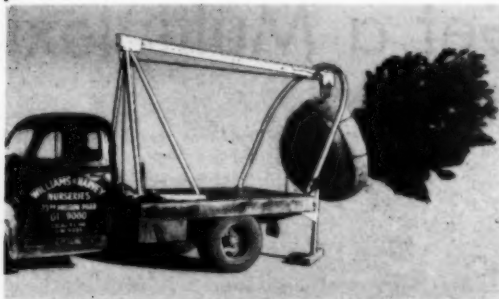
Each Tub is precision cut and secured with a solid, polished, yellow brass band.

Send for free catalog and price lists showing entire line of RED GIANT QUALITY PRODUCTS.

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BIG-TREE MOVER



Proved by use!
Leading nurseries, tree surgeons and park departments in all parts of the U.S. are using this new, improved mover. See it! Write us for addresses of users near you.

- New Lighter Weight
- Simpler to Operate
- Two Sizes, 6 Ft. and 7 Ft.
- Quickly Demountable
- Fits Any Standard Truck

Specifications, details and pictures free. Drop us a card.

Six-foot mover (as pictured) complete with power winch and all needed pickup parts, **\$1,675.00 F.O.B. Kansas City, Mo.**



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Nursery location: 7313 Mission Rd., Phone: ENdicott 2-8000

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FINELY GRANULATED
HIGHLY ABSORBENT
TOP-QUALITY
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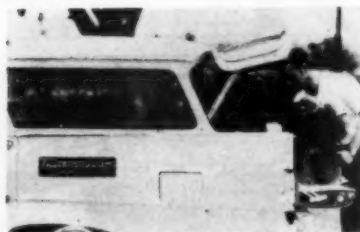
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The plants and products
written about and advertised in
FLOWER GROWER
THE HOME GARDEN MAGAZINE
over the last 45 years have helped
make the nursery and garden
industry a great part of
American living.



TRADE MARKER MAGNETIC CAR SIGNS

Neither brackets nor bolts are needed to keep these new identification signs affixed to your car or station wagon. When the car is used for nonbusiness purposes, the sign, held on by magnets, can be lifted off.

For literature and prices write to:

SOUTHERN INDUSTRIES
P. O. Box 545, 1605 Phillips St.
Wilson, N. C.

planning such an area for a customer, there is often a limited budget to consider as well as the horticultural tastes of the customer.

Construction work is necessary in landscaping, and Mr. Floyd suggested that a nurseryman who is not equipped for such work should make arrangements with a contractor. He also pointed out that an agreement with the customer in regard to construction work should not be ignored. The agreement should be in writing and need not be elaborate, but it should be a simple statement of the work to be done for a certain sum.

Soil Preparation and Paving

He discussed soil preparation and soil requirements for a good lawn and for nursery stock. The latter requires one cubic yard of topsoil, two feet deep. Subsoil and drainage should also be examined. In contemporary landscape development, paving is widely used, and Mr. Floyd discussed the various types.

Crushed rock serves as a drainage base and is most economical. Stone mulch and pebbles prevent erosion but also make future cultivation difficult. Asphalt is second most economical. Concrete is more permanent and does not require so much maintenance. Stone, cut flagstone, clay brick, concrete brick and wood paving were mentioned, and ways of laying them were discussed.

Macklin Hancock, Project Planning Associates, Toronto, told of the St. Lawrence seaway project development program. Plans are going ahead to develop and make into parks and recreational facilities some of the lands purchased by the government since the beginning of the seaway project.

From the nurseryman's and landscape man's point of view, the development of Chrysler park will be of most interest, for many of the other parks will be left in a natural wild state. Mr. Hancock outlined some of the plans for Chrysler park and other projects, stating that contracts for the work in developing historical sites and tourist attractions were given out to various nursery and landscape firms. At the conclusion of the session it was announced that an Ontario Landscape and Contractors Association had been formed, with 16 members.

Special Events

There was interest in the 18 trade fair exhibits throughout the convention, and social activity was not overlooked. On the first evening, the recreational facilities of the hotel were put to full use, and swimming.

3 TIMES AS MANY POTENTIAL PLANT BUYERS FOR MAIL-ORDER NURSERIES

A PROVEN MARKET!

Organic Gardening and Farming magazine now reaches more than 250,000 home-gardening families every month. In three short years, our circulation has tripled. We bring you more mail-order customers than ever before!

Satisfied advertisers tell us that results far exceed their expectations. In 1959's first four months, advertising volume is 18% ahead of 1958, and 124% ahead of 1957 and 220% ahead of 1956! What's more 52 new advertisers ran ads in 1959 so far.

Only results for advertisers justify these gains. Write today for more information.



ORGANIC
Gardening and Farming

EMMAUS 9, PENNSYLVANIA

bowling and dancing were enjoyed. The annual banquet preceded by the president's reception was held Tuesday evening and was an informal affair. W. B. Wellington was chairman. There were no speeches and, after the evening meal, there was dancing.

The ladies' program included a luncheon Monday noon in the hotel, after which a film by the Canadian Wine Institute was shown. In the afternoon there were bowling and swimming. The second morning an informal coffee party was held, and at noon all the ladies embarked for Niagara Falls, N. Y., for luncheon at the Treadway Inn. In the evenings they enjoyed the general social program.

OPENED recently at Ashland, Ore., was a nursery operated by John E. and Donald T. Wilkinson. The business is located on a 2-acre tract formerly occupied by the Lithia Nursery.

PAUL SIMMONS is the owner of the Lincoln Nursery & Garden Supply, a retail nursery started recently at Lincoln, Calif.

RECENTLY opened at Bakersfield, Calif., was a branch of Canadian Nursery Co., Taft.

ROUGH BROTHERS
Low-Cost Convertible

PLASTIC HOUSE

PRACTICAL! VERSATILE!
SIMPLE!



FOG-LIKE MIST FOR TENDER PLANTS

FOGG-IT NOZZLE breaks water into fog-like mist for seedbeds, newly seeded lawns (won't wash away seeds, soil, fertilizer), seedlings, bedding plants, ferns, young plants, begonias and orchids. Make extra profit—tie in with seed sales. Creates humidity for lath and green houses. Efficient with high or low pressure. Fits standard hose couplings. Saves water. Retail \$1.95. WRITE for complete information.

RAY SANDERS CO.

Dept. AN, 133 N. Santa Anita Ave.
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Replace Your Hot Beds with a
Rough Brothers PLASTIC HOUSE



No Paint—No Glass to Break
Prices Start at \$285.00
16' x 47'6"

SAVES LABOR: Eliminates transplanting. No ventilation worries.

GROWS BETTER PLANTS: Prevents diseases and eliminates insects.

CHEAPER than hot bed materials.

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Manufacturers & Builders of America's Finest Greenhouses

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RABBIT REPELLENT



• Z.I.P. is a taste repellent so distasteful to rabbits and deer they will actually spit out treated bark and foliage. A **mist** for every vegetable and flower grower.
• Gives complete protection for entire growing season.
• Easy to apply—sprays on.
6-oz., \$1.00 16-oz., \$2.25
(aerosol can) (aerosol can)
Also sold in quarts and gallons for nurseries, etc.

STANDARD DISCOUNTS—for full information and FREE SAMPLE write:

MEDICAL SERVICE CORP.
130 N. Campbell Ave. Chicago 12, Ill.



Western Pennsylvania Meeting

By Frank Curto

Forty-seven members and guests were in attendance when Chairman John M. Eisler, Eisler Nurseries, Butler, called to order the 13th meeting of the Western Region of the Pennsylvania Nurserymen's Association on March 5, at the Park Schenley restaurant, Pittsburgh.

After the minutes of the previous meeting had been read, Max Sestili, Pittsburgh, chairman of the telephone listing committee, displayed an advertisement to be printed in the yellow pages of the directory to give more emphasis to members listed under the P. N. A.—Western Region heading.

W. A. Morten, Jr., Coraopolis, reporting for the cooperative purchasing committee, stated that the association had purchased 68½ tons of fertilizer during 1958 under the new 6-10-4 plant name from the Kapco Co.

Frank Curto, Phipps Conservatory, Schenley park, Pittsburgh, secretary-treasurer of the group, talked on the "City of Flowers" campaign being sponsored by the committee for the 200th anniversary celebration of Pittsburgh. He explained the efforts that will be made to encourage planting of home properties this year and urged the membership to back this project.

Dominic Palumbo, South Hills Nursery, Pittsburgh, program chairman, introduced Tom Grealish, an insurance consultant. Mr. Grealish pointed out how savings could be made through careful consultation with an insurance agent, emphasizing more thorough methods of classification of employees and the need for adequate liability coverage.

William C. Trainor, a certified public accountant and tax consultant, next spoke on tax savings. He pointed out the tax advantages and disadvantages of corporate and single partnerships and stressed the importance of the system of reporting and accounting.

After dinner, Chairman Eisler introduced Eugene McFarland, of the General Electric Co., who gave a talk and demonstration on the use of garden lighting.



mowing is fun with the new 26" Bolens Ridemaster, America's smoothest cutting, easiest riding lawn mower. Enjoy the luxury of automotive steering, 6-speed Versamatic drive and reverse, lever-controlled cutting heights. Feel the surge of eager power that lets you cruise uphill with any of six working attachments.

Also see the new 24" Suburban, rugged, lightweight, maneuverable. Smart styling and deluxe quality at a low, low price.



BOLENS

Use this coupon to get free full-color literature and the name of your nearest Bolens dealer.

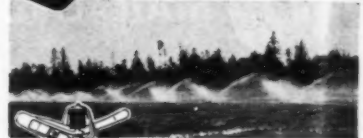
Check the catalogs that interest you, and mail to Bolens with your name and address.

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| <input type="checkbox"/> LAWN MOWERS | <input type="checkbox"/> UTILITY TRACTORS |
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| <input type="checkbox"/> POWER-PAK (Tiller-Mower-Snow Plow Convertible) | |



BOLENS PRODUCTS DIVISION
Food Machinery & Chemical Corporation
Port Washington 29, Wisconsin

**GIVE
DRY WEATHER
THE BIRD...**



**RAIN BIRD,
of course!**

There are handsome dividends to be earned in providing your own weather for crops and pasture...there's no better way to do this than with Rain Bird Sprinklers. Get water where you want it, when you want it!

Single installations have more than doubled—even tripled—yields and insured stability of crop income. See your dealer.

Write for free information.



SAVE TIME . . . SAVE LABOR

**DO A BETTER and FASTER JOB
OF SPRAYING OR DUSTING**

trees, shrubs, plants and crops with our K.W.H. shoulder-mounted MIST BLOWER and DUSTER powered by gasoline engine. 1-1½-3 H.P. models. DEEP PENETRATION—BETTER COVERAGE

The IDEAL MACHINE for WAX-COATING.

For FREE literature and prices write to:

VANDERMOLLEN EXPORT CO.
316 Bloomfield Ave. NUTLEY 10, N. J.

CHICAGO SHOW

[Continued from page 8]

cuses, scillas and yellow tulips beneath garden lights. Between the background border and the lawn that filled the foreground were plantings of ivy, tulips and hyacinths. Flowers also edged the entrance walk. A stone retainer wall shielded the lawn and border effects, and a redwood bench suggested relaxing in the pleasant scene. Materials selected were for color variety and interest in both winter and summer.

Educational Displays

The state nurserymen's group won more gold medals with displays that flanked the southern hillside in the arena. Both entries were backed by tall painted murals, each over 90 feet long, showing express highways traversing a countryside.

At one side the mural gave the highway scene before any roadside landscaping was executed. In front of it, however, the nurserymen and the Cook county forest preserve district reproduced a natural resting spot for the traveler, with picnic facilities and an array of shrubs and trees all tolerant of the climate of northern Illinois, all relatively easy of maintenance and all able to withstand the exposure of the unprotected countryside. The shrubs included crab apple, hawthorn, gray dogwood, Alpine currant, dwarf ninebark, sumac and viburnum. Wildflowers for underplanting included bluebells, violets, May apples, periwinkles and ferns.

On the other side, beneath the mural depicting a well-landscaped interchange, was a typical modern nursery layout, on a small scale. Designed for the nurserymen by the Chicago chapter of the American Society of Landscape Architects, this display held particular interest for those who had just bought or were contemplating buying nursery stock. Steps in growing plants, from seedling stage to selling time, were depicted, illustrating the effort involved in producing quality plants.

At one end a lath house covered a work area showing plants started from seeds, cuttings and grafts; B & B plants, and container-grown plants. Next came an interesting display of a wide range of desirable plants—Japanese yew, blue spruce, pine, juniper, magnolia, maple, euonymus and others—each in a variety of sizes and all heeled in, in soil. Blue spruce, for example, was shown at 1, 7, 10 and 18-year periods, and euonymus at 4, 7 and 12-year periods. Each variety was in a separate row, with the smallest specimen in front and the largest at the rear, so

Compare These Prices!

TREATED BURLAP

SQUARES—RECTANGLES—CONTINUOUS LENGTHS

The following are prices of TREATED squares DELIVERED to your nurseries (add 5% for nurseries west of the Mississippi.)

12" x 12"—@ \$26.25 per M	24" x 24"—@ \$56.00 per M
14" x 14"—@ 28.00 per M	26" x 26"—@ 63.00 per M
16" x 16"—@ 31.50 per M	28" x 28"—@ 73.50 per M
18" x 18"—@ 38.50 per M	30" x 30"—@ 84.00 per M
20" x 20"—@ 42.00 per M	32" x 32"—@ 94.50 per M
22" x 22"—@ 49.00 per M	36" x 36"—@ 108.50 per M
40" x 40"—@ \$122.50 per M	

Pinning Nails, 6d in 100-lb. Kegs, \$15.95

We have been supplying our treated squares to southern Nurserymen for 8 years with the following results:

Mr. Norwood Hastie**Magnolia Garden Nursery, Charleston, S. C.**

"After seven years of balling with your treated squares, we have always found them uniform. They hold up for approximately six months and are by far the lowest priced treated burlap we have been offered."

Mr. John Wight**Wight Nursery, Cairo, Georgia**

"Your treated squares are of the finest quality at the best prices we know of."

Mr. John Brailsford**Shady Grove Nursery, Orangeburg, S. C.**

"Your treated squares have saved us a great deal of money by eliminating re-balling costs."

Columbia

WRITE FOR CATALOG

NURSERY SUPPLY CO.

P. O. Box 5068 Columbia, S. C. Telephone ALpine 4-3786

ROOTSPRED TREE PLANTERS

Plant seedlings on rough land: Steep, stony, brushy, heavy soda, at 10 times the hand rate and with better survival.

Two models: Standard at \$365 and the M-55 at \$245 for easier sites.

Write for details.

ROOTSPRED**ST. PETERSBURG, PA.**

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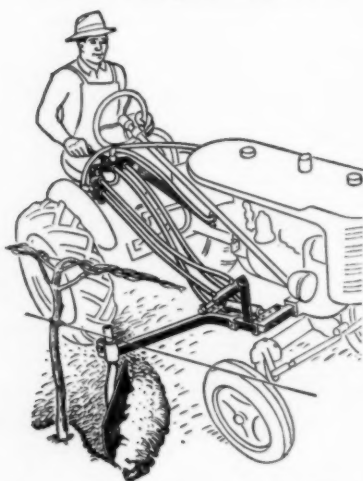


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comparison could be made and time of development to maturity appreciated. To the left of this arrangement was a field house with an ivy foreground and a flanking terrace with an attractive planting. The Bulkley medal of the Garden Club of America was awarded to this exhibit for its educational value.

Modern Landscape

Adjoining the nurseryman's industrial site planting, but facing the center of the arena, Vaughan's Seed Co., Chicago, carried out a modern tulip garden planned by William E. Rose & Associates. Flowers were used to spread color in broad masses. Across the back of a triangular space an uneven grassy slope fronted an ornate tile wall, with a large bed of yellow and white pansies centering the area. Then, after a flagstone walk, the terrain stretched with irregular elevations that permitted placing small bedding plants closer to eye level along one side and an expanse for massed tulips, mainly new varieties, at the other side. A totem pole topped one mound, and a Hopa crab apple in bloom also gave height. Baltic ivy and shamrock plants formed edgings at various points. A gold medal went to this feature in the center displays.

Three plantings made up the unit encircled by the second half of the figure-8 path. Directly opposite the Vaughan display was a June rose garden, in similar triangular shape, staged by the Jackson & Perkins Co., Newark, N. Y., and winner of a gold medal. More than 700 hybrid tea and floribunda roses formed beds and borders. Across most of the back, salmon and red roses were placed on a terrace planting. At the left, however, near an aisle, a round bed of rose miniatures in concentric rings of color—yellow, pink and red—showed in a grassy area and attracted much interest.

Forming a V shape, with grass in the center, two massed plantings—Garnette on one side and Summer Snow on the other—came to a point near the front of the space. Solid beds of roses also edged the entire planting back of a retaining wall. Pink Garnette occupied much of the side sections, with Ivory Fashion and Kordes Perfecta near the point. Tree roses in full bloom were set at intervals in the inner planting, and birch trees in leaf were used for accents through the display, designed by Armand R. Tibbits, landscape architect, Greenwich, Conn.

Garden Living

Backing the rose planting and facing the hillside planting of azaleas,

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the Chalet Nursery & Garden Shop, Wilmette, Ill., filled a 2,000 square foot area with a scene to emphasize the enjoyment of garden living. A large stone patio, on which a recumbent figure dozed, was bordered by stone planters and a clipped yew hedge at the wide back end. A rocky knoll at the left of a grassy area had a naturalistic planting of evergreens, azaleas, birch trees and pachysandra. On the other side there was a terrace in an Alpine setting of boulders and logs. In another grouping, evergreens had interplantings of spring-flowering bulbs and a border of summer annuals. A picket fence enclosed part of the space, and bluegrass flowed down the center of the display. Chet Durant, of the Chalet organization, planned the scene, recipient of a bronze medal.

Planting of a pool edge in the third unit of this group of displays received a bronze medal. White petunias in a grass border formed a clump at one end of the pool and geraniums and lights flanked the steps that led to the brim of the pool. Jensen Swimming Pools, Barrington, entered this display, which was landscaped by Harold Klopp. A redwood windbreak was used to afford privacy.

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Arlington Heights, Ill., utilized 90 feet of the north side of the arena to present a June garden for outdoor living and color. Harold Klopp, who designed the setting, showed

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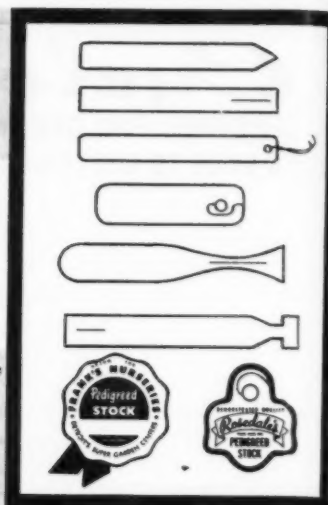
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ing on the porch included a table, set for dining, on a level just above a pool, a grill and a planting that flanked broad steps leading from the porch to the terrace that had a low wall and clumps of petunias and ivy to mark the entrance to the patio. In the space extending to the left, perennials and annuals in bloom formed a curving back border for a lawn, while at the extreme left, the garden ended with another flower-surrounded pool in an evergreen setting. An unusual backing was employed to restrict the view beyond this planting. This display merited a silver medal for the Klehm nursery.

Other Features

Four plantings staged by North Shore garden clubs in the north exhibit hall adjoining the main arena showed much merit in both ideas and execution. In the south hall, several information booths, with exhibits, were staffed by members of men's garden clubs who offered gardening information to show visitors.

Varied fields of information were tapped to obtain educational displays that would contribute to the horticultural experience of the show attendants. The three sectional rose societies in the Chicago region, all affiliated with the American Rose Society, set up a display, and members offered advice about their favorite flower. Similar effort was made by the Illinois Orchid Society and an African violet growers' group.

The Morton Arboretum, Lisle, Ill., had a comprehensive display depicting the horticultural opportunities offered at the arboretum, showed results of some of the activities there and exhibited photographs and charts that are used in teaching programs.

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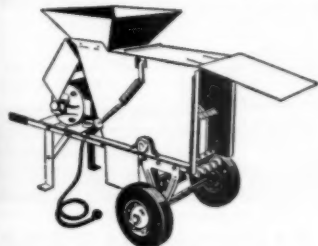
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stitute, Washington, D. C., were two exhibits, each 150 feet long. "Plant Portraits" was a display of medicinal plants and herbs, all of which can be grown in this country. "This Is the American Earth" depicted various aspects of conservation and national resources and included drawings and color diagrams, in addition to early photographs of the 19th century.

The Argonne National Laboratory, Lemont, Ill., and the botany department of the University of Chicago prepared a display to indicate the new uses of atomic energy in plant growth studies. A section of this exhibit also depicted the effects of gibberellic acid on plants.

World Contacts Marked

The big midwest flower exhibition was featured as the Chicago World Flower Show because it was planned as one of the events to mark the year in which Chicago will become a world port, along with other major cities situated on the Great Lakes, accessible to ships from all parts of the world by way of the St. Lawrence seaway. Many features in the show were planned to accent the international flavor. A large rotating globe in the main arena showed native sources for many familiar plants. Oriental influences were used in several feature plantings and smaller displays. Flower arrangement classes were devoted to aspects of foreign culture. The Lithuanian Agricultural Association staged a wayside garden to receive the president's award, a silver medal.

The Chicago Horticultural Society, organized in 1890, promoted some of the earliest flower shows in the city, and its membership, widespread in the Chicago area, includes many commercial and professional horticulturists. Net proceeds of the recent show will benefit the society's charitable gardening projects for handicapped school children, aged citizens and the blind. The society's efforts toward cultural improvement in the area were recognized by the participation of many commercial and noncommercial civic-minded organizations and individuals.

OPERATIONS of the Evergreen Nursery, Richland, Wash., have been expanded by A. L. and Ethel Reil.

GRAND opening was held recently of Frontier Nursery, Henderson, Nev. The firm is owned by William and Vera Mainor.

RECENTLY started was a retail and wholesale nursery by Henry J. Krell, Troy, Mich.

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SET YULE TREE EXHIBITS

The Michigan Christmas Tree Grower's Association and the state department of agriculture are working together to establish rules for competition among growers at county fairs this year.

According to Paul Armintrout, Armintrout's Evergreen Nursery, Allegan, 1958 association president, this will be the first time that the state will share in paying premium money for top-ranking Christmas tree exhibits at county fairs. He said the association hopes to see yule trees listed in premium books of every fair in the state in counties where the trees are grown commercially.

Mr. Armintrout and Paul Krause, Detroit, 1957 association president, met in January with the Michigan Association of Fairs and Exhibitors at Detroit to explain the program. County fair officials were enthusiastic in their response to the association's proposal for competition among tree growers. The agricultural department announced that it would contribute 40 per cent of the prize money offered by the fairs.

Christmas trees already are included in the Allegan county fair's premium book for 1959, and the Michigan Christmas Tree Growers' Association recently accepted a bid from the Michigan state fair to set up an exhibit at the annual exposition in Detroit next fall.

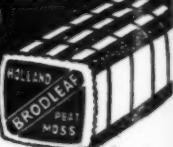
PROMOTE SEVENTEEN ROSE

A coral pink floribunda rose, named the Seventeen Rose in honor of Seventeen magazine, was introduced by the Jackson & Perkins Co., Newark, N. Y., at the flower show held March 7 at the Coliseum, New York, N. Y. Resulting from seven years of hybridization to achieve a variety suitable in size, color and appearance for a young girl, the short-stemmed, small-size bloom will be available to florists this year as a cut flower. By 1960, according to Jackson & Perkins, Seventeen Rose plants will have been developed in ample quantity for home gardeners.

To commemorate this hybridization, the entire May issue of Seventeen will be devoted to the Seventeen Rose and its uses as a gift flower, a fashion accessory and a decorative item for centerpieces and displays. In conjunction with the special issue, 100 stores throughout the country will participate in Seventeen Rose promotions, featuring fashions and products from the May issue and using Seventeen Roses as decorations.

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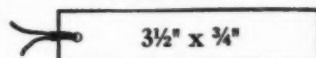
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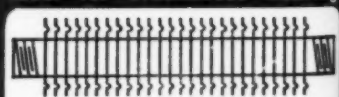
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